EON Virtual Campus - Zagreb University

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Overview EON Virtual Campus Vol. 5 Custom Academic Courses

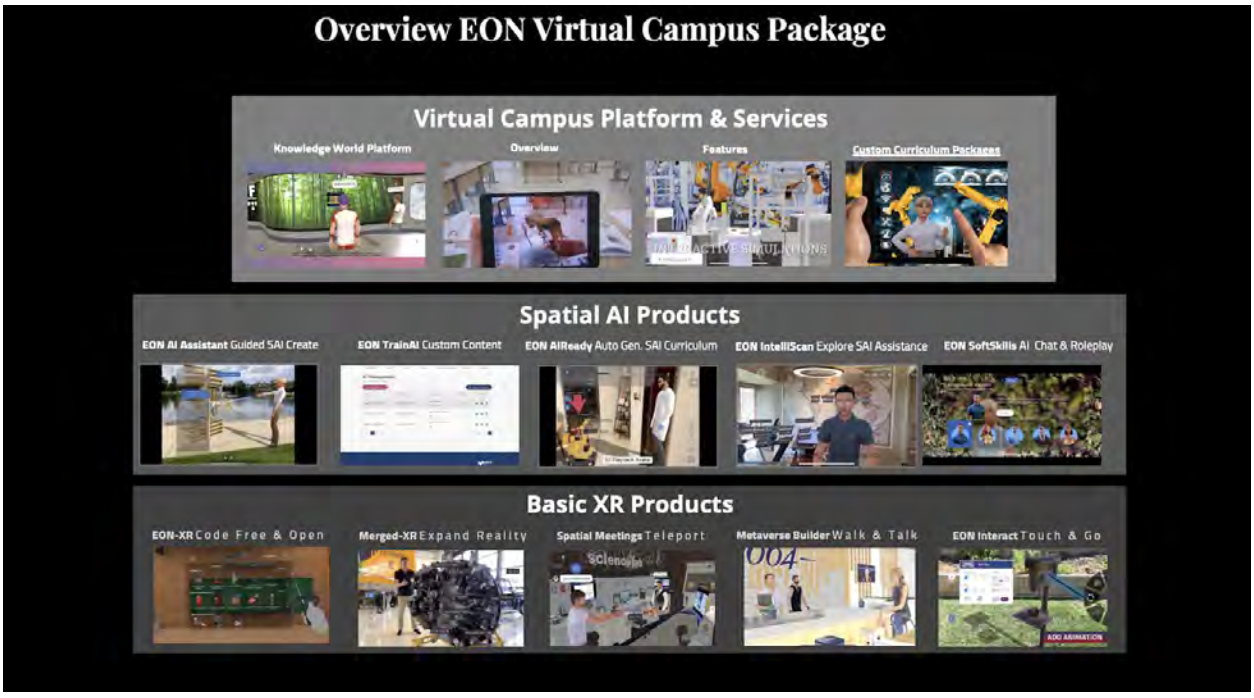
EON Reality's Virtual Campus Platform provides immersive curriculum services using AI, augmented, and virtual reality. It transforms traditional content into 3D interactive learning.

The platform has both generic modules from top institutions and custom-tailored packages. Key features include transforming textual content into 3D, hands-on training for hard skills like health science, and a soft skills simulator for role-playing activities with feedback from AI avatars. T

The platform boasts a knowledge portal, 3D model integration, automatic annotations, assessments, and a skill simulator that turns standard procedures into 3D animations. The EON SoftSkills module teaches through virtual role-play, encompassing theory learning, practical training, and AI-based feedback.

The platform's extensive curriculum spans across various departments including Engineering, Humanities, Business, Medicine, and more, covering both hard and soft skills.

Introduction to EON Virtual Campus Curriculum Courses



EON Reality has introduced a **Virtual Campus Platform with distinct curriculum services.**

Transform textual and visual content into immersive learning courses

The platform that employs AI, augmented, and virtual reality to **transform textual and visual content into immersive learning courses.** This technology allows subjects, such as engineering, to be studied in three dimensions. Users can interact with objects, like engines, and learn from an AI avatar about their functionality and standard procedures.

Hands-on simulations for hard skills

The platform offers hands-on simulations for hard skills applicable in fields like health science, aerospace, and manufacturing. Features include a knowledge portal, 3-D model integration, annotations, and automatic assessment tools.

Soft skills simulator to engage learners in virtual role-playing

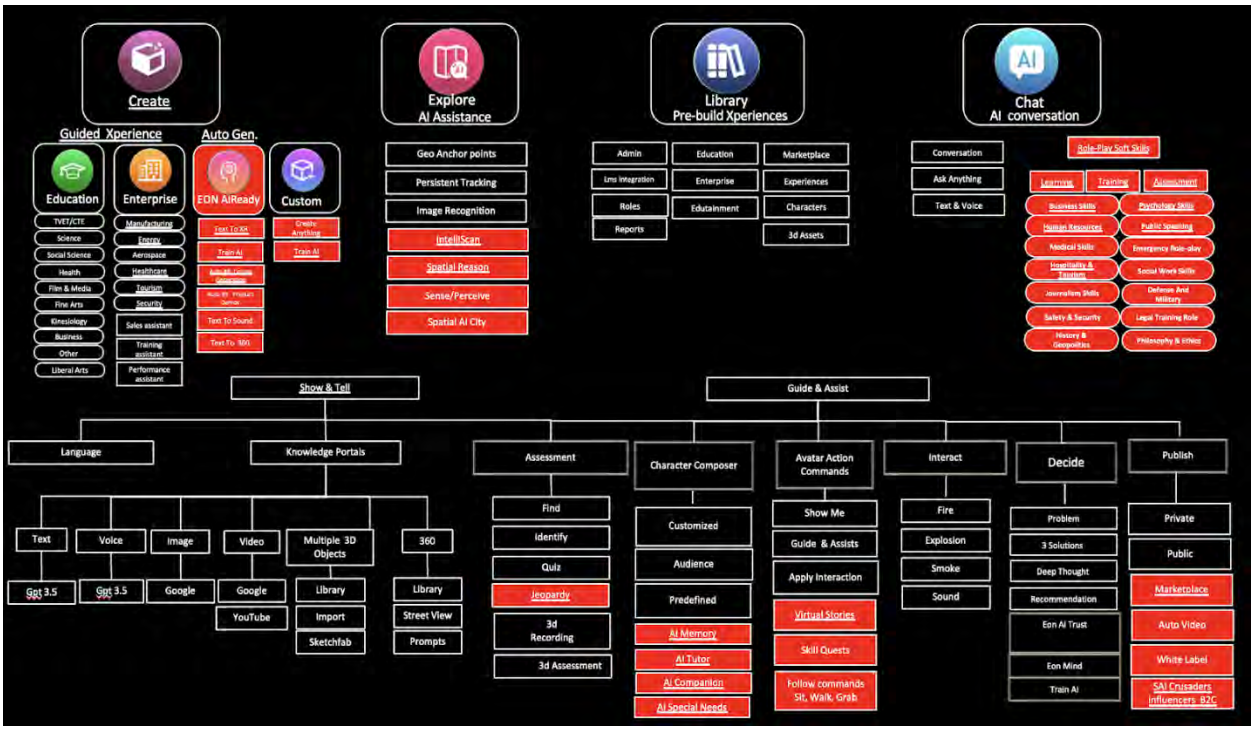
Moreover, EON has also unveiled a soft skills simulator. In this module, learners engage in virtual role-playing with an AI avatar across scenarios like finance negotiations or HR interviews. Each interaction is then evaluated by an expert AI avatar. Feedback is provided detailing areas of strength and improvement. The goal is to offer comprehensive training, practice, and assessment in both hard and soft skills through immersive experiences.

Generic and Custom Curriculum packages

EON Reality has developed a Virtual Campus Platform with distinct curriculum services.
Under the "Knowledge World" umbrella, they offer a curriculum package, which consists of more than 200 courses across 20 departments. The packages come in two versions: generic package and custom curriculum package.

- **The generic package** is designed using the best modules from the **top global academic institutions in Higher Education, TVET Colleges and K12.** Customers can purchase these pre-existing modules at a set price, leading to a specified total for all 200 modules.
- **The custom curriculum package** which encompasses is based on the specific curriculum from academic institutions in Higher Education, TVET Colleges and K12.20 departments, each with 10 modules, totaling 200 modules.

EON Platform Features



EON AI Assistant for Hard skills

EON Reality has developed a unique EON platform software package that uses artificial intelligence and augmented and virtual reality that can take course material **from text and images** and **converted to an augmented reality virtual reality, experiential learning course.**

For example, in engineering, you can study engines by **interacting with at an actual engine in three dimensions**, and **learning about the parts** of the engine in Virtual and augmented reality from the **AI avatar that is showing you and telling you** about **the standard operation procedures** and how the engine works and can also trigger a **skill simulator** where you can learn and train on specific skills and **get assessed** in a simulation based environment.

These types of hard skills applicable in many disciplines, including for example, health science, manufacturing, energy, aerospace, security and tourism.

The following details describe the contents of the delivery features:

EON AI Assistant - Comprehensive Product Feature Description

Knowledge Portal with Floating Annotations:

- Addition of a hero image from provided material and sources.
- 10 floating Knowledge Portals with:
    - Images.
    - Text.
    - Videos.
- AI Avatar explaining **parts** and **processes.**

3-D Model Integration:

- Model sourced from EON's library of 9 million assets.
- If a default model is unavailable, an image is used as a placeholder.
- Illustrative example: A robot 3-D model for a robotics Course.
- Editing Option like this in Q4
- Option to import a personal CAD model or scan a 3-D object. (This feature comes at an additional fee.)
- Upgrade to the text to 3-D conversion tool, expected in the first half of 2024. (This feature comes at an additional fee.)

Annotations for the 3-D model.

- If a model lack annotations,
- EON will auto-generate them initially as floating annotation.
- IntelliScan feature for image recognition-based annotations at no additional cost as it becomes available Q1 2024
- Option for users to manually add annotations at an additional cost.

Assessment Creation Automatic:

- Assessment tools for the 3-D model, including:
    - Standard drop menu quiz.
    - Locate quiz.
    - Identify quiz.
    - Jeopardy style quiz.
- Future quizzes coming in 2024:
    - Drag and drop.
    - Matching quiz.
    - Ordering quiz.
    - True/false quiz.
    - Short answer quiz.

AI Generated Universal Skill Simulator (3D assessment):

- Targets **top five standard operation procedures.**

- Includes **auto-generated procedures** aligned with academic curriculum.
- Procedures transform **into 3-D animations guided by an AI avatar.**
- Learners can demonstrate processes, with AI comparing and assessing their performance.
- Example: Robotic start-up procedures, maintenance, recovery, etc.
- If a 3-D model isn't available, a 2D hero image is used instead

Interactive Simulation Scenarios (add-on module)

- AI identifies real-life scenarios.
- One Presented with 3-D models and Knowledge Portals.
- Users can create simulations using Eon Interact. (manual process)
- This manual creation feature comes at an additional fee.

Incident Simulation: (add-on module)

- One AI avatar identifies and presents incidents using the Knowledge Portal.(manual process)
- Users are assessed on these incidents.
- Users can create incident simulations using Eon Interact.
- This manual creation feature comes at an additional fee.

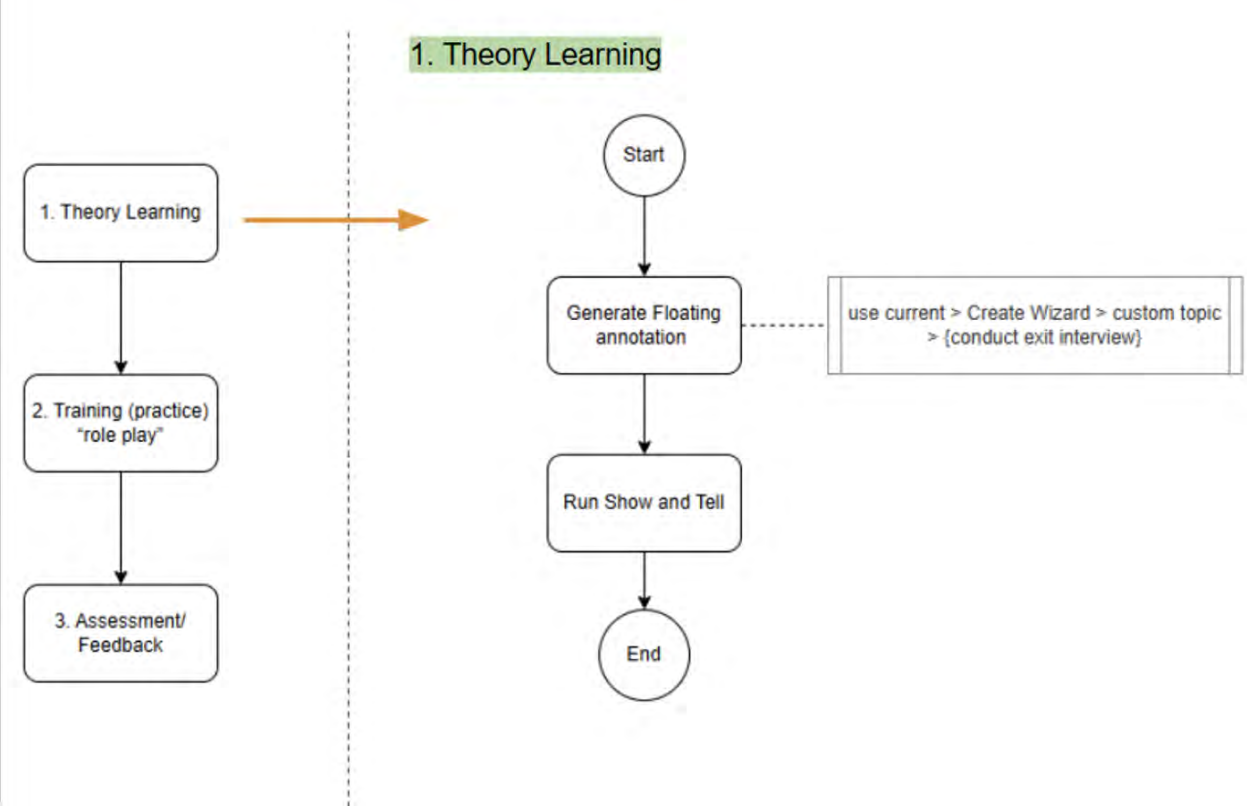
EON Soft Skills

EON Reality has also developed a soft skill simulator in virtual reality and augmented reality platform that enables learners to learn, train and be assessed on interacting and conducting role-play with an EON artificial intelligence Avatar for different topics such as within finance (such as negotiation techniques, board maneuvering) within human resources (job interviews and exit interviews) within journalism (how to tackle different questions) etc.

The learner gets first an introduction how to master, for example negotiation techniques then it has to train with live with the avatar as an opponent for that scenario and then it gets assessed by an expert Avatar in the topic how well they did on a score 1 to 100.

The AI assessment expert tells the learner what he did right, what I did wrong and what they should've done instead.

EON Soft Skills - Comprehensive Product Feature Description



Theory Learning:

Start: Initiation of the theory learning module.

Seamless entry into the learning environment for a focused start.

Generate Floating Annotation:

Dynamic annotations appear during the learning process.

Provides supplementary information and clarifications.

Enhances understanding by highlighting important concepts.

Run Show and Tell:

Interactive visual presentations paired with explanatory content.

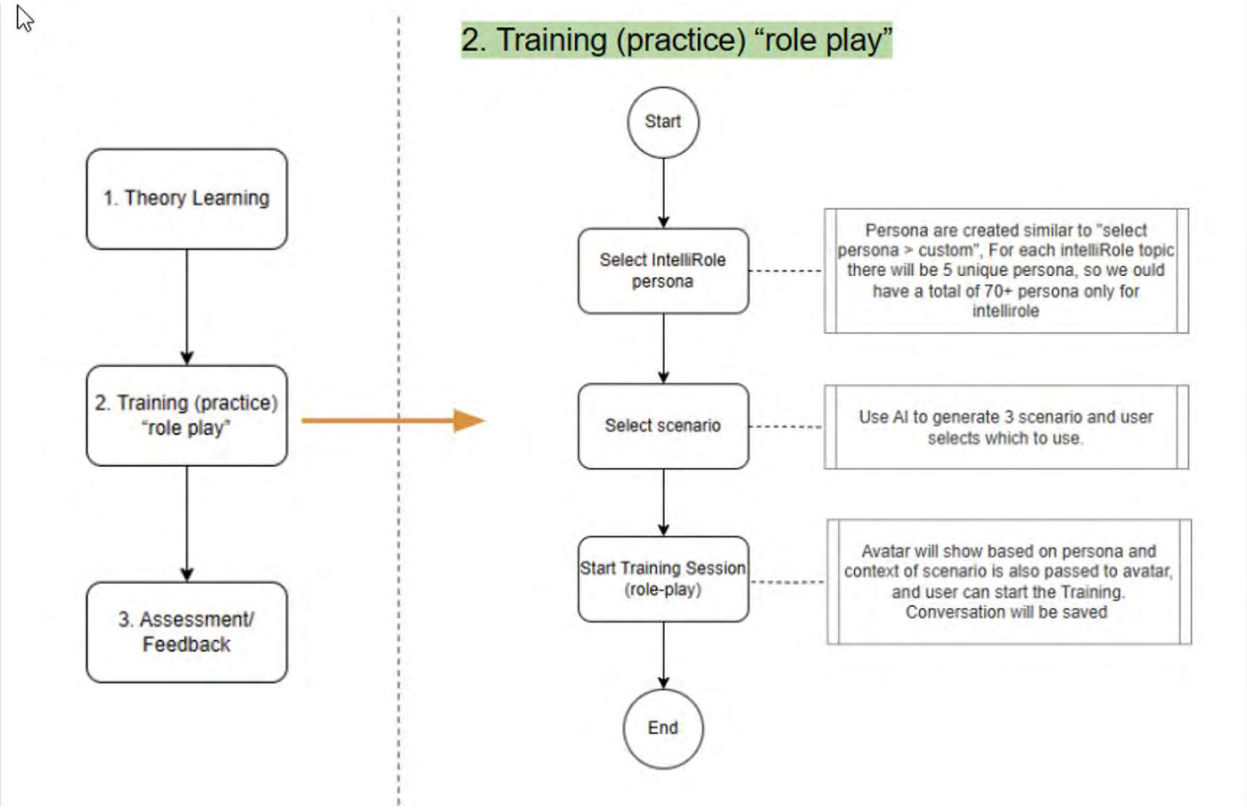
Engage with visual demonstrations for better retention.

Experience real-world examples and applications of the theory.

End:

Conclude the theory learning segment.

Prepare for the next phase of training with a comprehensive grasp of theoretical knowledge.



Training (Practice):

Start: Initiation of the practical training module.
Transition from theory to hands-on practice.

Select AI Persona:
Choose a specific persona tailored to the training topic.
Multiple unique personas available for diverse training scenarios.

Select Scenario:
Engage with AI-generated training scenarios.
User discretion in selecting which scenario to practice.

Start Training Session (role-play):
Interactive role-playing based on selected persona and scenario.
AI avatar adapts to the scenario's context for a realistic experience.

End:
Conclude the practical training segment.
Segue into the assessment phase for feedback.

Assessment/Feedback:

Start: Commence the evaluation process.
Reflect on both theoretical and practical training experiences.

Send Conversion to be graded to AI:

Automated AI grading system evaluates the training session.
Focuses on assessing user's application of theoretical knowledge in practice.

Expert Avatar Debrief:

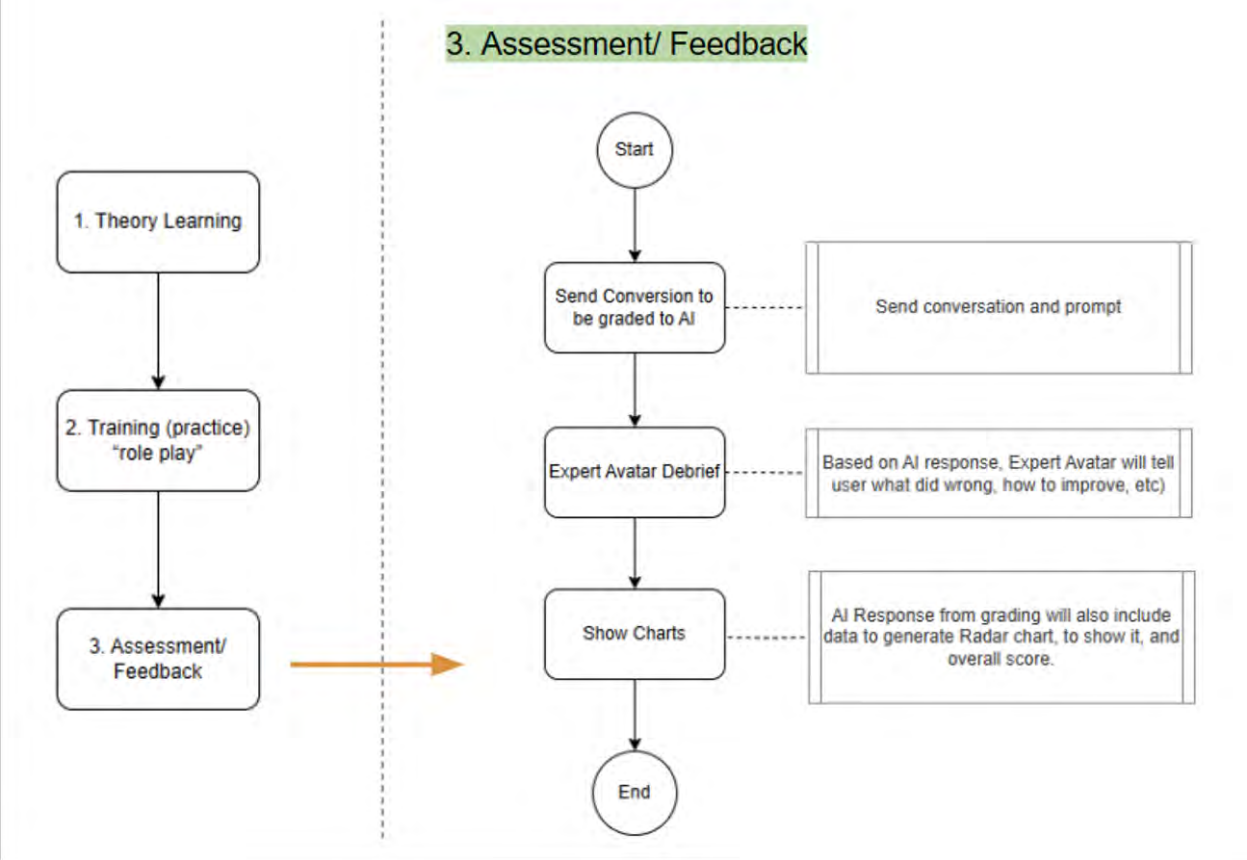
Detailed feedback from an AI "expert avatar".
Insights on areas of improvement and strengths.

Show Charts:

Visual representation of performance metrics.
Uses AI-generated radar charts to provide a comprehensive view of overall skills.

End:

Finalize the assessment process.
Provides a holistic view of user's progress and areas for further development.



Faculty of Humanities and Social Sciences

Linguistics and Literature

Croatian Language in VR

Dive deep into the rich tapestry of the Croatian language with the cutting-edge capabilities of the EON AI Assistant. Immerse yourself in a virtual reality environment that brings the language to life like never before.

Knowledge Portal with Floating Annotations:

- Hero Image: Visualize the scenic landscapes of Croatia.
- 10 Floating Knowledge Portals: Access immersive tutorials, from basic greetings to complex grammar structures.
- AI Avatar: Let an AI guide you through the nuances and intricacies of the Croatian language with interactive lessons and real-time feedback.

3-D Model Integration:

- Explore the Croatian alphabet and its unique characters in three dimensions.
- Should a particular phonetic model be unavailable, placeholder images of Croatian landmarks will enrich the learning experience.

Annotations for the 3-D Model:

- Discover the etymology and cultural significance of Croatian words with the auto-generated floating annotations.
- IntelliScan offers recognition-based annotations for a deeper understanding of each word.

Assessment Creation:

- Test your proficiency with a range of quizzes.
- Engage with word-order challenges, pronunciation tests, and listening quizzes.

AI Generated Universal Skill Simulator:

- Master conversational Croatian with AI-generated dialogues, role-playing standard interactions you might encounter in Croatia.

Interactive Simulation Scenarios:

- Simulate real-life scenarios like ordering food, asking for directions, or attending a traditional Croatian event.

Incident Simulation:

- Tackle linguistic challenges by resolving miscommunications or misunderstandings in simulated incidents.

Comparative Literature Visualization

Experience the vast world of comparative literature through a visual journey. Explore thematic connections, literary trends, and cross-cultural narratives in a whole new light.

Knowledge Portal with Floating Annotations:

- Hero Image: A montage of iconic literary works from across the globe.
- 10 Floating Knowledge Portals: Delve into literary eras, from Renaissance to Post-modernism, with images, text, videos, and more.
- AI Avatar: Engage with an AI guide breaking down complex literary theories and intertextual connections.

3-D Model Integration:

- Visualize iconic scenes, characters, and settings from renowned literary works in three dimensions.
- Placeholder images of famous authors and their manuscripts enhance the literary exploration.

Annotations for the 3-D Model:

- Gain insights into character development, plot devices, and thematic relevance through auto-generated annotations.
- IntelliScan will help in identifying and understanding motifs and symbols across different works.

Assessment Creation:

- Assess your understanding with quizzes focusing on literary terms, era identification, and author-work matching.

AI Generated Universal Skill Simulator:

- Navigate through intricate plots and narratives with AI-generated story mapping.

Interactive Simulation Scenarios:

- Participate in simulated book club discussions, analyzing and comparing different literary pieces.

Incident Simulation:

- Address and analyze conflicts in literary interpretations and draw connections between different literary schools of thought.

Slavic Languages Simulation

Journey through the rich linguistic tapestry of Slavic languages. Engage with interactive simulations to understand the similarities, differences, and evolution of these languages.

Knowledge Portal with Floating Annotations:

- Hero Image: A map showcasing the Slavic-speaking regions.
- 10 Floating Knowledge Portals: Dive into specific Slavic languages such as Russian, Polish, and Bulgarian with interactive tools.
- AI Avatar: Benefit from a multilingual AI guide offering insights into phonetics, grammar, and cultural contexts.

3-D Model Integration:

- Visualize the linguistic tree of Slavic languages, exploring the evolution and divergence in three dimensions.
- Placeholder images will provide glimpses into the cultures and heritages of Slavic nations.

Annotations for the 3-D Model:

- Delve deeper into the syntax, morphology, and vocabulary of each Slavic language with the help of floating annotations.
- IntelliScan enhances the learning experience by identifying unique linguistic features across the languages.

Assessment Creation:

- Test your knowledge of Slavic phonetics, vocabulary, and grammar with varied quizzes.

AI Generated Universal Skill Simulator:

- Engage in AI-generated conversational scenarios, practicing translations and dialectal differences.

Interactive Simulation Scenarios:

- Immerse in scenarios such as shopping in Moscow, attending a Serbian festival, or navigating the streets of Prague.

Incident Simulation:

- Resolve linguistic challenges and confusions that arise from the similarities and nuances of the Slavic languages.

Phonetics and Speech Training

The "Phonetics and Speech Training" course offers an immersive journey into the world of sounds and speech patterns. Using cutting-edge 3-D models and interactive assessments, students get a hands-on experience with articulatory phonetics, guided by an AI avatar. From understanding the International Phonetic Alphabet to mastering intonation and rhythm, this course provides comprehensive training in speech.

Knowledge Portal with Floating Annotations:

- **Hero Image:** A visualization of the human vocal apparatus.
- **Knowledge Portals:** Dive deep into 10 distinct phonetic nuances with:
  - Images of mouth and tongue positions.
  - Text explaining the sound's origin and usage.
  - Videos demonstrating correct articulation.
  - AI Avatar guiding through pronunciation exercises.

3-D Model Integration:

- 3-D models sourced from EON's extensive library.
- Illustrative example: A 3-D model of the larynx, demonstrating vocal fold vibration.
- Option to view a detailed 3-D scan of the human tongue, showing articulatory phonetics in action.

Annotations for the 3-D Model:

Annotations elucidating the vocal tract components, the distinction between voiced and voiceless sounds, and the different articulatory positions.

Automated Assessment Creation:

- International Phonetic Alphabet symbols.
- Voice and place of articulation.
- Pitch and tone identification.

AI-Generated Universal Skill Simulator (3D assessment):

- Simulations of different speech sounds.
- AI avatar-guided demonstrations and feedback.

Interactive Simulation Scenarios:

Participate in real-life conversation scenarios, emphasizing intonation, stress, and rhythm.

Incident Simulation:

Tackle challenging phonetic situations, such as distinguishing between minimal pairs or mastering tricky diphthongs.

Language Technology and Translation

The "Language Technology and Translation" course provides an in-depth exploration of the fascinating intersection of linguistics and technology. Through interactive 3-D models and AI-guided exercises, students delve into machine translation, neural networks, and natural language processing. This comprehensive course prepares participants to harness technology for effective and accurate language translation.

Knowledge Portal with Floating Annotations:

- **Hero Image:** A graphic representation of language processing.
- **Knowledge Portals:** Explore 10 core areas of language technology with:
    - Images illustrating machine translation algorithms.
    - Texts about natural language processing (NLP).
    - Videos showcasing real-world translation applications.
    - AI Avatar elucidating on machine learning in linguistics.

3-D Model Integration:

- 3-D representations of neural network structures used in language models.
- Illustrative example: A 3-D visual of a transformer architecture in NLP.

Annotations for the 3-D Model:

Annotations detailing the workings of neural networks, tokenization processes, and more.

Automated Assessment Creation:

- Core concepts of machine translation.
- Neural network architectures.
- NLP tasks and applications.

AI-Generated Universal Skill Simulator (3D assessment):

- AI-guided exercises on developing translation algorithms.
- Feedback on optimizing neural network structures for language tasks.

Interactive Simulation Scenarios:

Confront real-world language tech challenges, from sentiment analysis to speech recognition.

Incident Simulation:

Address incidents in machine translation, ensuring cultural appropriateness and linguistic accuracy.

History and Archaeology

Virtual Reconstructions of Historical Sites

Dive into a virtual exploration of the world's most iconic historical sites. From the ancient ruins of Rome to the mysteries of Stonehenge, experience history like never before. Learn, explore, and test your knowledge with the EON AI Assistant.

- Knowledge Portal with Floating Annotations:
    - Hero image: A panoramic view of the ancient Roman Colosseum.

        - 10 floating knowledge portals highlight various historical sites around the world.
        - AI Avatar: Guides learners through the ancient ruins, detailing the architecture and significance of each structure.
- 3-D Model Integration:
    - Featured Model: 3D reconstruction of the Stonehenge.
    - Explore various historical structures in 3D, understanding their architectural nuances.
    - For some lesser-known sites, authentic images will be used.
- Annotations for the 3-D Model:
    - Annotations on each 3D model detail the architectural styles, purpose, and historical facts.
    - Coming in 2024: IntelliScan feature will identify and annotate artifacts and relics.
- Assessment Creation:
    - Quizzes: Test your knowledge on architectural styles, historical timelines, and significance of various sites.
    - Upcoming quizzes will include matching relics to their respective eras and locations.
- AI Generated Universal Skill Simulator:
    - Experience 3D walkthroughs of historical sites.
    - AI avatar narrates significant events associated with each site.
- Interactive Simulation Scenarios:
    - Simulate historically significant events, like the construction of the Pyramids.
- Incident Simulation:
    - Recreate significant incidents like battles or ceremonies that took place at these sites.

Croatian History and Heritage

Journey through the ages and witness Croatia's mesmerizing history. From ancient tales to its modern renaissance, immerse yourself in Croatia's vibrant culture and legacy.

- Knowledge Portal with Floating Annotations:
    - Hero image: A panoramic view of Dubrovnik, the Pearl of the Adriatic.
    - 10 floating portals detail Croatia's journey from early civilizations to modern times.
    - AI Avatar: Narrates Croatia's rich cultural and historical tapestry.
- 3-D Model Integration:
    - Featured Model: 3D representation of Croatian castles and forts.

        - Discover Croatia's architectural evolution and the stories behind it.
- Annotations for the 3-D Model:
    - Detailed annotations on Croatian art, attire, and ancient scripts.
    - 2024's IntelliScan will identify and elaborate on Croatia's unique artifacts.
- Assessment Creation:
    - Quizzes: Delve deep into Croatia's past, from its kings and queens to its modern-day evolution.
- AI Generated Universal Skill Simulator:
    - Virtual tours of Croatia's key historical landmarks.
    - AI-guided exploration of Croatia's folk tales and legends.
- Interactive Simulation Scenarios:
    - Engage in scenarios depicting Croatia's medieval fairs and ancient ceremonies.
- Incident Simulation:
    - Relive key moments in Croatian history, from battles to royal decrees.

Ancient Civilizations and VR Explorations

Step into a time machine and traverse the annals of history. Experience the wonders, innovations, and lifestyles of ancient civilizations, making history palpable like never before.

- Knowledge Portal with Floating Annotations:
    - Hero image: A bustling marketplace in ancient Mesopotamia.
    - 10 floating portals unravel the mysteries of ancient civilizations like the Mayans, Egyptians, and Indus Valley.
    - AI Avatar: Transports learners back in time, sharing tales of old.
- 3-D Model Integration:
    - Featured Model: 3D depictions of iconic structures like the Sphinx and Machu Picchu.
    - Understand the marvels of ancient engineering and architecture.
- Annotations for the 3-D Model:
    - Annotations reveal daily life, religious practices, and innovations of ancient people.
    - IntelliScan, in 2024, will bring to life artifacts and tools from these eras.
- Assessment Creation:
    - Quizzes: Challenge your knowledge of ancient scripts, leaders, and epoch-defining events.
- AI Generated Universal Skill Simulator:
    - Experience day-to-day activities of ancient civilizations, from farming to festivities.
- Interactive Simulation Scenarios:

        - Participate in reenactments of ancient rituals and grand celebrations.
- **Incident Simulation**:
    - Witness turning points in ancient history, from monumental discoveries to grand wars.

Archaeological Techniques in AR

Dive deep into the world of archaeology using cutting-edge augmented reality technologies. This course will leverage the EON AI Assistant to deliver a transformative learning experience, enabling students to virtually excavate, study artifacts, and explore archaeological sites.

Detailed Course Features:

Knowledge Portal with Floating Annotations:
- Hero Image: A visual of an iconic archaeological site in Europe.
- 10 Floating Knowledge Portals including:
    - Images of significant archaeological finds.
    - Text detailing excavation techniques.
    - Videos of renowned archaeologists explaining key concepts.
    - AI Avatar guiding students through the intricate world of archaeology.

3-D Model Integration:
- 3-D models of famous European artifacts, tools, and excavation sites.
- Placeholder images for artifacts yet to be modeled.
- Illustrative Example: A 3-D model of an ancient amphora or a Stonehenge structure.
- Upcoming options for detailed artifact editing.
- Opportunity for students to upload their personal archaeological findings or 3-D scans.

Annotations for the 3-D model:
- Auto-annotations detailing the historical significance and context of each artifact.
- IntelliScan feature (available from Q1 2024) to scan and recognize artifacts, offering instant historical data.
- Option for students to contribute annotations based on their research.

Automated Assessment Creation:
- Quizzes testing knowledge on:
    - Artifact identification.
    - Site location.
    - Excavation techniques.
- Upcoming interactive quizzes for deeper engagement.

AI-Generated Universal Skill Simulator (3D assessment):

- Simulations of standard archaeological procedures, e.g., excavation techniques.
- AI-guided 3-D animations showing artifact restoration processes.
- Students can showcase their excavation techniques, receiving AI feedback.

Interactive Simulation Scenarios:

- AI-generated scenarios such as virtually excavating a newly discovered site.
- Personal simulation creations using Eon Interact for real-life archaeological scenarios.

Incident Simulation:

- Scenarios like accidentally damaging an artifact, with AI guidance on proper handling and restoration techniques.
- Students can simulate and assess potential on-site incidents.

European History Visualization

Explore the rich tapestry of European history using the EON AI Assistant, allowing learners to immerse themselves in pivotal moments, meet historical figures in AR, and understand the context behind significant events.

Detailed Course Features:

Knowledge Portal with Floating Annotations:

- Hero Image: Iconic European landmarks across different eras.
- 10 Floating Knowledge Portals showcasing:
  - Images of significant European events.
  - Text detailing historical contexts.
  - Videos with historians elaborating on European epochs.
  - AI Avatar narrating the transformative moments in European history.

3-D Model Integration:

- Detailed 3-D representations of castles, battlefields, and monuments.
- Placeholder images for yet-to-be-modeled historical sites.
- Illustrative Example: A 3-D reconstruction of the Bastille or the Roman Colosseum.
- Upcoming detailed editing options for specific historical scenes.
- Potential for students to integrate their personalized 3-D historical reconstructions.

Annotations for the 3-D model:

- Annotations giving context and significance to each historical site and event.
- IntelliScan feature (available from Q1 2024) offering deeper insights into historical relics.
- Option for students to add annotations based on their historical research.

Automated Assessment Creation:

- Quizzes testing understanding on:
  - Key European figures.
  - Landmark events.
  - Historical timelines.
- New interactive quizzes arriving in 2024 for comprehensive historical testing.

AI-Generated Universal Skill Simulator (3D assessment):

- Simulations of key events like the Renaissance or the French Revolution.
- AI-guided 3-D reenactments of significant moments.
- Students can reenact and analyze critical events, receiving AI feedback.

Interactive Simulation Scenarios:

- AI scenarios like witnessing the signing of pivotal treaties.
- Eon Interact feature for creating personal historical event simulations.

Incident Simulation:

- Scenarios such as "What if" events, exploring alternative historical outcomes.
- Students can simulate and analyze these alternative scenarios.

Faculty of Science

Biology

Molecular Biology Visualization

An immersive exploration into the world of molecules. Dive deep into cellular processes, genetics, and laboratory simulations to gain a comprehensive understanding of molecular biology.

- **Knowledge Portal with Floating Annotations**:
  - Dive deep into the world of molecular structures with the hero image showcasing DNA double helix.

    - 10 knowledge portals provide interactive visualization of cellular processes, genetic mutations, and protein synthesis, complete with videos, text, and images.
    - AI Avatar guides students through cellular processes, explaining the significance of molecular interactions and the role they play in life.
- 3-D Model Integration:
    - Interact with accurate 3D models of DNA, RNA, proteins, and more.
    - Customized models of complex molecular structures, curated from EON's extensive library.
    - Ability to import custom molecular structures for specific research or educational purposes.
- Annotations for the 3-D Model:
    - Detailed annotations on molecular interactions, significance of specific genes, and protein functions.
    - IntelliScan aids in identifying and labeling molecular components.
    - Option for educators to add specific annotations for focused learning topics.
- Assessment Creation:
    - Test your knowledge with quizzes ranging from DNA replication to genetic disorders.
    - Engage with interactive quizzes like identify the molecule, genetic mutations, and more.
    - Advanced quizzes, coming in 2024, to deepen understanding and ensure retention.
- AI Generated Universal Skill Simulator:
    - Simulate laboratory procedures like DNA extraction, gel electrophoresis, and CRISPR technology.
    - Watch procedures transform into 3D animations with AI guidance, allowing hands-on practice in a virtual lab.
- Interactive Simulation Scenarios:
    - AI-driven scenarios showcase real-world implications of genetic modifications, cloning, and more.
    - Create custom scenarios to explore specific molecular biology topics.
- Incident Simulation:
    - Experience real-life lab incidents to learn safety and troubleshooting techniques.
    - Simulate scenarios like chemical spills or failed experiments to understand the importance of safety and precision.

Virtual Fieldwork in Botany

Traverse through virtual forests and biomes, understanding plant life, growth processes, and the importance of flora in our ecosystems. Engage in hands-on simulations and understand the intricate world of plants.

- Knowledge Portal with Floating Annotations:
  - Embark on a journey through a virtual forest with a hero image of diverse plant life.
  - 10 knowledge portals illustrate plant anatomy, photosynthesis processes, and diverse flora from around the world.
  - An AI Avatar guides learners through the fascinating world of plants, discussing their importance in ecosystems.
- 3-D Model Integration:
  - Explore 3D models of plants, flowers, seeds, and more, understanding their growth and lifecycle.
  - EON's library provides models from various biomes, ensuring a holistic learning experience.
  - Teachers can import specific plant models for tailored learning modules.
- Annotations for the 3-D Model:
  - Annotations elucidate plant anatomy, highlighting parts like stomata, xylem, and phloem.
  - IntelliScan brings deeper insight into the microscopic world of plants.
  - Option for personalized annotations to cater to specific curriculum requirements.
- Assessment Creation:
  - Engage in quizzes that test understanding of plant physiology, classification, and ecological significance.
  - Upcoming quizzes in 2024 to delve into advanced botany topics.
- AI Generated Universal Skill Simulator:
  - Simulate plant growth conditions, cross-breeding, and grafting techniques.
  - 3D animations demonstrate processes like pollination and seed germination.
- Interactive Simulation Scenarios:
  - AI-generated scenarios allow exploration of diverse biomes, conservation efforts, and the role of plants in ecosystems.
  - Custom simulations enable specific exploration, like rainforest preservation or desert flora adaptability.
- Incident Simulation:
  - Experience challenges like plant diseases, pest infestations, and learn mitigation strategies.
  - Understand the significance of sustainable practices in botany.

Marine Biology and Underwater Simulations

Embark on a deep-sea journey, exploring marine ecosystems, species behaviors, and the challenges of ocean conservation. Dive into underwater simulations to experience the wonders and challenges of marine biology.

- Knowledge Portal with Floating Annotations:
  - Dive into the depths of the ocean with a hero image of a vibrant coral reef.
  - 10 knowledge portals immerse learners in marine ecosystems, marine animal behaviors, and the importance of ocean conservation.
  - An AI Avatar narrates the wonders of the deep blue, emphasizing the role of marine life in Earth's health.
- 3-D Model Integration:
  - Swim alongside 3D models of sharks, dolphins, and colorful fishes.
  - Explore marine structures like coral reefs, underwater caves, and hydrothermal vents with models from EON's library.
  - Option to import specific marine species or structures for focused learning.
- Annotations for the 3-D Model:
  - Annotations guide learners on marine animal anatomy, coral reef symbiosis, and the effects of ocean acidification.
  - IntelliScan offers deeper dives into specific marine topics.
  - Custom annotations provide specialized marine biology insights.
- Assessment Creation:
  - Quizzes test knowledge on marine ecology, evolution of marine species, and conservation efforts.
  - More quizzes coming in 2024, deepening the marine biology exploration.
- AI Generated Universal Skill Simulator:
  - Simulate marine research techniques, underwater exploration, and marine animal behaviors.
  - AI-guided 3D animations help learners grasp complex marine processes like ocean currents and tidal movements.
- Interactive Simulation Scenarios:
  - AI-driven scenarios present challenges like oil spills, marine pollution, and their impact on marine life.
  - Learners can create custom scenarios, exploring topics like deep-sea exploration or marine conservation efforts.
- Incident Simulation:
  - Experience potential challenges faced by marine biologists, such as encountering dangerous marine species or dealing with damaged research equipment.
  - Emphasize the importance of safety and preparedness in marine environments.

Genetics and DNA Sequencing Visualization

Harness the power of EON's AI-driven platform to delve deep into the intricate world of genetics and DNA sequencing. Experience the marvels of human inheritance, genetic variation, and the science of DNA sequencing like never before.

Knowledge Portal with Floating Annotations:

- **Hero Image:** A striking visual representation of a DNA double helix, showcasing its iconic spiral structure.
- **10 Floating Knowledge Portals:** Navigate through portals that encompass:
  - Different types of genetic mutations.
  - The process of DNA replication.
  - The principles of genetic inheritance.
  - Visualization of a DNA sequencer.
  - Understanding of nucleotide pairing.
  - Videos on sequencing methods.
  - AI Avatar explaining CRISPR technology and its implications.

3-D Model Integration:

- Models sourced from the vast genetic databases of EON, displaying various genetic structures.
- 3-D models of DNA molecules, chromosomes, and gene editing tools.
- An illustrative example would be a detailed 3-D model of the CRISPR-Cas9 system, explaining its role in gene editing.

Annotations for the 3-D model:

- Detailed annotations on the DNA structure, highlighting nucleotide pairs, minor and major grooves, and other essential features.
- Coming in Q1 2024: IntelliScan feature, which will annotate images of DNA samples and recognize specific genetic patterns or mutations.

Automated Assessment Creation:

- Quizzes that test your understanding of genetic principles, DNA sequencing techniques, and the ethical considerations surrounding genetics.

AI-Generated Universal Skill Simulator (3D assessment):

- Engage with simulations that demonstrate DNA sequencing procedures, gene editing techniques, and more, guided by an AI avatar.

Interactive Simulation Scenarios (add-on module):

- Experience real-world scenarios such as a laboratory sequencing DNA or an in-depth exploration of gene therapy techniques.

Incident Simulation (add-on module):

- Confront scenarios where genetic mutations cause specific conditions or diseases and explore potential gene therapies to address them.

Ecology and Biodiversity Surveys in VR

Embark on a virtual journey into the world's diverse ecosystems. Understand the complex relationships between flora and fauna, and experience the richness of our planet's biodiversity in immersive VR.

Knowledge Portal with Floating Annotations:

- **Hero Image:** A mesmerizing panorama of a thriving rainforest, representing the lushness of biodiversity.
- **10 Floating Knowledge Portals:** Navigate through portals that cover:
  - Different biomes and their characteristics.
  - Key species in various ecosystems.
  - The concept of trophic levels.
  - Conservation efforts and endangered species.
  - The role of humans in biodiversity.
  - Videos on ecological research methods.
  - AI Avatar explaining the importance of biodiversity for our planet's health.

3-D Model Integration:

- Models from EON's extensive database, depicting different species, ecosystems, and ecological phenomena.
- Illustrative example: A 3-D model of the coral reef ecosystem, highlighting its biodiversity and the relationships between species.

Annotations for the 3-D model:

- Annotations explaining different species, their roles in the ecosystem, and the relationships between predators and prey.
- IntelliScan feature (coming in Q1 2024) for recognizing and annotating various species from images.

Automated Assessment Creation:

- Quizzes assessing your grasp on ecological principles, species identification, and the importance of biodiversity.

AI-Generated Universal Skill Simulator (3D assessment):

- Engage in simulations that showcase ecological surveys, species tracking, and conservation efforts, guided by an AI avatar.

Interactive Simulation Scenarios (add-on module):

- Witness real-world scenarios like tracking migrations of certain species, or the effects of deforestation on an ecosystem.

Incident Simulation (add-on module):

- Address challenges such as habitat destruction or invasive species introduction and explore potential solutions.

Physics

Particle Physics Simulations

Explore the intricate world of particle physics like never before with our comprehensive course using the EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Dive deep with a captivating hero image showcasing atomic and subatomic particles.
- Navigate through 10 dedicated knowledge portals featuring images of particle collisions, detailed text explanations, short videos of experiments, and the AI Avatar elucidating the underlying principles and processes of particle physics.

3-D Model Integration:

- Interact with 3-D models of atomic structures, particles, and particle accelerators sourced from EON's vast library.
- Engage with illustrative examples like a 3-D model of the Large Hadron Collider.
- Benefit from upcoming text-to-3D conversion tools in 2024 for a richer experience.

Annotations for the 3-D Model:

- Grasp intricate details with auto-generated floating annotations on particles and their interactions.
- Experience enhanced learning with the IntelliScan feature in 2024, providing image recognition-based annotations on atomic structures.

Assessment Creation:

- Test your knowledge with a variety of quizzes, including identifying different particles, locating their interactions, and a Jeopardy-style quiz on particle physics history.
- Future quiz formats will challenge your grasp of particle interactions and theories.

AI Generated Universal Skill Simulator:

- Understand standard procedures like particle collision experiments, particle accelerator operations, and more through 3-D animations led by the AI avatar.
- Practice and get assessed on these procedures in a virtual environment, with feedback from the AI.

Interactive Simulation Scenarios:

- Experience real-life scenarios of particle experiments, visualized through 3-D models and knowledge portals.
- For those looking for a deeper dive, create your own simulations to explore hypothetical scenarios in particle physics.

Incident Simulation:

- Get introduced to groundbreaking discoveries and mishaps in the world of particle physics through AI avatar-guided simulations.
- Evaluate your problem-solving skills by navigating through these incidents and deriving solutions.

Astrophysics and Cosmic Phenomena

Embark on a cosmic journey to explore the universe, its vast expanse, celestial bodies, and phenomena using the EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Begin your journey with a mesmerizing hero image of a galaxy or a black hole.
- Access 10 dedicated knowledge portals that contain images of celestial events, informative texts about cosmic phenomena, video clips of space explorations, and the AI Avatar detailing the complexities of the universe.

3-D Model Integration:

- Experience 3-D interactions with models of stars, galaxies, black holes, and other celestial bodies.
- Engage with an illustrative example, such as a 3-D model of a supernova explosion.
- Anticipate an even richer exploration with text-to-3D conversion tools launching in 2024.

Annotations for the 3-D Model:

- Enhance your understanding with auto-generated floating annotations explaining the life cycle of stars, the formation of galaxies, and more.
- Look forward to the IntelliScan feature in 2024, offering image recognition-based annotations on celestial bodies.

Assessment Creation:

- Challenge yourself with quizzes that ask you to identify constellations, locate distant galaxies, and more.
- Anticipate engaging with new quiz formats in 2024 that will deepen your understanding of the universe.

AI Generated Universal Skill Simulator:

- Delve into standard procedures in astrophysics, from observing distant galaxies to tracking meteor paths, all in 3-D animations narrated by the AI avatar.
- Showcase your understanding by replicating these processes, with the AI assessing your performance.

Interactive Simulation Scenarios:

- Dive into real-life scenarios like space missions, visualized through 3-D models and knowledge portals.
- Customize your learning by creating personal simulations of celestial events.

Incident Simulation:

- Explore historic space missions and cosmic events, simulated and narrated by the AI avatar.
- Assess your decision-making and problem-solving skills as you navigate through these incidents.

Quantum Mechanics Visualization

Navigate the enigmatic world of quantum mechanics and visualize its intricate phenomena using the state-of-the-art EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Start with a captivating hero image depicting quantum entanglement or wave-particle duality.
- Delve into 10 knowledge portals containing images of quantum states, texts detailing quantum principles, video demonstrations of experiments, and the AI Avatar explaining the baffling world of quantum physics.

3-D Model Integration:

- Interact with 3-D models visualizing quantum states, particles, and wave functions.
- Examine illustrative examples, such as a 3-D model of the double-slit experiment.
- Look forward to enhanced visualizations with the upcoming text-to-3D conversion tools in 2024.

Annotations for the 3-D Model:

- Absorb intricate quantum details with auto-generated floating annotations.
- Prepare for an enhanced experience with the IntelliScan feature, offering image recognition-based annotations on quantum phenomena, come 2024.

Assessment Creation:

- Evaluate your quantum understanding with a plethora of quizzes, from identifying quantum states to understanding superposition and more.

- Get ready for a broader range of quiz formats in the near future, challenging your quantum knowledge further.

AI Generated Universal Skill Simulator:

- Grasp standard procedures in quantum mechanics, such as observing quantum superposition, visualized in 3-D animations with the AI avatar's guidance.
- Get hands-on, demonstrate these quantum principles, and receive AI-driven feedback on your performance.

Interactive Simulation Scenarios:

- Encounter real-life scenarios in quantum research, visualized in 3-D models and enriched knowledge portals.
- For the curious minds, craft your simulations to dive deeper into quantum mechanics.

Incident Simulation:

- Discover groundbreaking quantum experiments and their results through AI-led simulations.
- Hone your analytical skills by navigating through these quantum scenarios and drawing conclusions.

Thermodynamics and Statistical Mechanics

Dive into the world of heat, work, and molecular motion using EON's AI Assistant. Explore 3-D models of engines and molecules, interact with virtual simulations of thermodynamic processes, and understand the foundations of heat transfer, entropy, and statistical behaviors of molecules.

Knowledge Portal with Floating Annotations:

- **Hero Image:** A visual representation of the laws of thermodynamics and molecules in motion.
- **Floating Knowledge Portals:** Ten distinct portals showcasing:
    - Images: Depictions of thermodynamic processes and statistical molecular behavior.
    - Text: Comprehensive explanations about the laws of thermodynamics and statistical mechanics theories.
    - Videos: Demonstrations of thermodynamic processes and molecular motion simulations.
    - **AI Avatar:** A virtual instructor guiding students through the intricacies of thermodynamics and statistical mechanics.

3-D Model Integration:

- **Models:** From EON's library, featuring thermal engines, molecular structures, and thermodynamic systems.
- **Illustrative Example:** A 3-D model of a Carnot engine or a molecular motion in a gas.

Annotations for the 3-D Model:

- Detailed annotations on each 3-D model explaining the core concepts of thermodynamics and statistical mechanics.

Automated Assessment Creation:

- Quizzes on:
    - Laws of thermodynamics.
    - Isothermal and adiabatic processes.
    - Concepts of entropy and enthalpy.

AI-Generated Universal Skill Simulator:

- Demonstrations of:
    - Heat transfer processes.
    - Work done in thermodynamic cycles.
    - Molecular motion in gases.

Interactive Simulation Scenarios:

- Real-world scenarios of engines working, cooling and heating processes, and molecular interactions in various conditions.

Incident Simulation:

- Simulations of unexpected incidents in thermodynamic processes and how to handle them.

Optics and Wave Phenomena in VR

Embark on a virtual journey through the realm of light and waves. Utilize 3-D models to visualize light interactions with lenses and mirrors, immerse yourself in wave simulations, and understand the principles of reflection, refraction, interference, and diffraction using EON's AI-powered platform.

Knowledge Portal with Floating Annotations:

- **Hero Image:** A visualization of light rays passing through a prism and wavefronts.
- **Floating Knowledge Portals:** Ten distinct portals displaying:
    - Images: Diagrams of lenses, mirrors, and wave patterns.
    - Text: Comprehensive explanations about optics, wave theories, and phenomena.
    - Videos: Demonstrations of light refraction, reflection, interference, and diffraction.
    - **AI Avatar:** A virtual instructor elucidating the principles of optics and wave phenomena.

3-D Model Integration:

- **Models:** From EON's library, including various lenses, mirrors, and visual representations of wavefronts.
- **Illustrative Example:** A 3-D model of light passing through a convex lens or wave interference patterns.

Annotations for the 3-D Model:

- Detailed annotations on each 3-D model highlighting the key concepts of optics and wave phenomena.

Automated Assessment Creation:

- Quizzes on:
    - Laws of reflection and refraction.
    - Lens and mirror formulas.
    - Wavefronts and their properties.

AI-Generated Universal Skill Simulator:

- Demonstrations of:
    - Formation of images by lenses and mirrors.
    - Wave interference and diffraction patterns.
    - Polarization of light.

Interactive Simulation Scenarios:

- Real-world scenarios of optical instruments, wave setups, and light phenomena in various settings.

Incident Simulation:

- Simulations of unexpected incidents in optical setups and wave experiments, and their solutions.

Faculty of Electrical Engineering and Computing

Computer Science

AR/VR Development and Design

Dive into the world of Augmented Reality (AR) and Virtual Reality (VR) development and design. This course, powered by EON AI Assistant, transforms theoretical knowledge into an interactive, augmented, and virtual experiential learning environment.

Features:

Knowledge Portal with Floating Annotations:
- Visualize a hero image showcasing pioneering AR/VR designs.
- Engage with 10 floating knowledge portals comprising images, text, videos, and an AI avatar detailing AR/VR design principles and methodologies.

3-D Model Integration:
- Explore intricate 3-D models of VR headsets, AR glasses, and simulation environments.
- Interact with detailed examples, such as a 3-D model of a VR game environment.
- Customize and enhance your learning with personal CAD model imports related to AR/VR (additional fee applies).

Annotations for the 3-D Model:
- Benefit from auto-generated floating annotations explaining AR/VR hardware and software components.
- Anticipate the future of AR/VR design with IntelliScan's image recognition-based annotations.

Assessment Creation:
- Test your understanding with AR/VR-specific quizzes, from identifying VR components to AR design challenges.
- Prepare for upcoming assessments like drag and drop, matching AR/VR functionalities, and more.

AI Generated Universal Skill Simulator:
- Immerse yourself in AR/VR design scenarios.
- Watch standard AR/VR procedures turn into 3-D animations, guided by an AI avatar.

- Demonstrate your design skills while the AI offers real-time feedback.

Interactive Simulation Scenarios:

- Confront real-life AR/VR design challenges and solve them using 3-D models and knowledge portals.
- Create your AR/VR simulations using Eon Interact (additional fee applies).

Incident Simulation:

- Tackle AR/VR design problems presented by the AI avatar.
- Undergo assessments on design incidents and enhance your problem-solving capabilities.

Artificial Intelligence and Machine Learning

Step into the future of AI and Machine Learning (ML). Using the EON AI Assistant, this course provides a comprehensive, interactive deep dive into the core concepts, techniques, and applications of AI/ML.

Features:

Knowledge Portal with Floating Annotations:

- Discover a hero image of groundbreaking AI innovations.
- Delve into 10 floating knowledge portals containing images, text, videos, and an AI avatar explaining neural networks, algorithms, and more.

3-D Model Integration:

- Examine detailed 3-D models of neural structures, deep learning frameworks, and AI hardware.
- Engage with examples, such as a 3-D model illustrating a neural network's layers.
- Enrich your experience by importing personal CAD models related to AI/ML projects (additional fee applies).

Annotations for the 3-D Model:

- Receive auto-generated floating annotations on AI algorithms and ML processes.
- Prepare for future AI breakthroughs with IntelliScan's image recognition-based annotations.

Assessment Creation:

- Test your knowledge through AI/ML-based quizzes, ranging from algorithm identifications to data analysis challenges.
- Get ready for future quiz types to enhance your learning further.

AI Generated Universal Skill Simulator:

- Engage with AI/ML scenarios and simulations.
- Learn and master AI techniques through 3-D animations narrated by an AI avatar.

- Practice and refine your AI skills with instant AI feedback.

Interactive Simulation Scenarios:

- Address real-world AI/ML problems using 3-D models and knowledge portals.
- Develop your AI simulations using Eon Interact (additional fee applies).

Incident Simulation:

- Solve AI-driven challenges presented by the AI avatar.
- Be assessed on various AI incidents to hone your problem-solving skills.

Human-Computer Interaction

Immerse yourself in the interdisciplinary field of Human-Computer Interaction (HCI). Utilizing the EON AI Assistant, the course bridges theory and application, offering an in-depth exploration of how humans interact with digital systems.

Features:

Knowledge Portal with Floating Annotations:

- Uncover a hero image highlighting innovative HCI designs.
- Access 10 floating knowledge portals laden with images, text, videos, and an AI avatar elucidating UX principles, design methodologies, and more.

3-D Model Integration:

- Dive into 3-D models of ergonomic designs, interface prototypes, and interactive systems.
- Engage with samples like a 3-D model of an interactive dashboard.
- Incorporate personal CAD designs for HCI projects (additional fee applies).

Annotations for the 3-D Model:

- Obtain auto-generated floating annotations detailing HCI theories and design concepts.
- Stay ahead with IntelliScan's annotations on emerging HCI trends.

Assessment Creation:

- Assess your HCI knowledge through diverse quizzes, from interface design challenges to UX evaluations.
- Anticipate a slew of upcoming quiz formats for a comprehensive understanding.

AI Generated Universal Skill Simulator:

- Delve into HCI scenarios using 3-D animations.
- Master HCI methodologies as the AI avatar guides you through interactive sessions.
- Showcase your HCI skills and gain AI insights on improvement areas.

Interactive Simulation Scenarios:

- Resolve real-life HCI design challenges using 3-D models and knowledge portals.
- Construct HCI simulations using Eon Interact (additional fee applies).

Incident Simulation:

- Address HCI issues as they're presented by the AI avatar.
- Strengthen your design and problem-solving abilities through hands-on assessments.

Cybersecurity Simulations

Delve deep into the complex world of cybersecurity using EON's state-of-the-art AI Assistant. Experience cybersecurity like never before, interacting with realistic simulations and engaging with virtual threats in a safe environment.

Features:

- **Knowledge Portal with Floating Annotations:**
  - Incorporate essential cybersecurity images, terms, and protocols.
  - Accessible annotated portals include:
    - Images of common cybersecurity threats.
    - Text detailing different hacking methodologies.
    - Videos of real-time hacking demonstrations.
    - An AI Avatar guiding users through cybersecurity best practices and threat mitigation.
- **3-D Model Integration:**
  - Interact with 3-D models of computer systems and networks.
  - Explore a detailed 3-D model of a server room, showcasing how breaches can occur.
  - Understand complex cyber threats using 3-D visual representations.
- **Annotations for the 3-D model:**
  - Auto-annotations detailing parts of computer systems and common vulnerabilities.
  - Upcoming IntelliScan feature will allow for deeper, image recognition-based annotations.
- **Automated Assessment Creation:**
  - Test your cybersecurity knowledge and skills through:
    - Identifying potential vulnerabilities.
    - Threat recognition quizzes.
    - Intrusion detection simulations.
- **AI-Generated Universal Skill Simulator (3D assessment):**
  - Engage with top cybersecurity procedures.

    - Witness cyber-attack simulations and learn effective countermeasures with the AI avatar's guidance.
- **Interactive Simulation Scenarios (add-on module):**
    - Face real-world cybersecurity challenges.
    - Defend virtual networks from AI-generated cyberattacks.
- **Incident Simulation (add-on module):**
    - Respond to simulated security breaches.
    - Mitigate and counteract real-time virtual threats using Eon Interact.

Graphics and Multimedia in VR

Step into the vibrant realm of virtual reality graphics and multimedia. Harness the power of EON AI Assistant to immerse yourself in high-definition virtual landscapes and interactive multimedia elements.

Features:

- **Knowledge Portal with Floating Annotations:**
    - Experience the magic of VR graphics with rich multimedia content.
    - Portals provide:
        - Images showcasing VR graphic design evolution.
        - Text elaborating on VR rendering techniques.
        - Videos displaying VR animation and multimedia integrations.
        - An AI Avatar presenting the intricacies of VR multimedia design.
- **3-D Model Integration:**
    - Engage with 3-D models of VR equipment and virtual landscapes.
    - Dive into a 3-D model of a VR game environment, exploring its many layers.
- **Annotations for the 3-D model:**
    - Annotations shedding light on VR equipment functionalities and graphic design elements.
    - Upcoming IntelliScan feature for deeper insight into VR technology.
- **Automated Assessment Creation:**
    - Assess your grasp on VR graphic design through:
        - Design critiques.
        - VR multimedia recognition quizzes.
        - Animation sequencing challenges.
- **AI-Generated Universal Skill Simulator (3D assessment):**
    - Work on top VR multimedia projects.
    - Create, modify, and optimize VR graphics under the AI avatar's guidance.
- **Interactive Simulation Scenarios (add-on module):**
    - Engage in VR multimedia projects.

    - Design and optimize virtual landscapes using Eon Interact.
- **Incident Simulation (add-on module):**
    - Troubleshoot VR graphics and multimedia challenges.
    - Address and rectify virtual glitches using Eon Interact.

Electrical Engineering

Circuit Design in AR

Delve into the intricate world of circuit design with an immersive augmented reality experience. Explore and visualize circuits like never before, and engage with interactive 3D models to deepen your understanding.

Features:

Knowledge Portal with Floating Annotations:

- **Hero Image**: A detailed illustration of a complex circuit board.
- **10 Floating Knowledge Portals** provide insights on:
    - Different circuit components.
    - Circuit design principles.
    - Prototyping techniques.
    - Popular circuit board layouts.
    - Videos of real-world circuit applications.
    - An AI avatar detailing the function and significance of each component.

3-D Model Integration:

- Engage with 3D models of different circuit boards from EON's vast library.
- Interact with placeholders in the absence of specific models.
- Experience a realistic representation of a PCB for a communications device.
- Utilize the Q4 editing option for model alterations.
- Optional: Import your own CAD circuit designs (additional fee).

Annotations for the 3-D Model:

- Auto-generated floating annotations label each circuit component.
- Upcoming IntelliScan feature identifies circuit components in Q1 2024.
- Manually add specific circuit notes (extra fee).

Assessment Creation:

- Challenge your understanding through:
    - Circuit identification quizzes.
    - Component location quizzes.
    - Prototyping Jeopardy-style quizzes.
- Future quizzes on circuit troubleshooting and signal flow.

AI Generated Universal Skill Simulator:

- Visualize standard circuit assembly procedures.
- Watch 3D animations detailing soldering, component placement, and testing.
- Showcase circuit design prowess, with AI assessment.

Interactive Simulation Scenarios:

- Encounter real-world circuit challenges and solve using AR.
- Create custom circuit simulations (additional fee).

Incident Simulation:

- Address circuit malfunctions and breakdowns through simulations.
- Design incident simulations for deeper understanding (additional fee).

Control Systems and Robotics Simulations

Navigate the advanced realm of robotics and control systems through vivid simulations. Understand robotic movements, control mechanisms, and integrate knowledge with real-world applications.

Features:

Knowledge Portal with Floating Annotations:

- Hero Image: A state-of-the-art robot in action.
- 10 Floating Knowledge Portals cover:
    - Robotics history.
    - Types of control systems.
    - Mechanisms in robotics.
    - Robotic programming techniques.
    - AI Avatar explaining robotic movements and control logic.

3-D Model Integration:

- Interact with 3D models of robots and control systems.

- Visualize a robot model illustrating its control mechanisms.
- Use Q4 editing option for tailored insights.
- Optional: Integrate personal robot CAD designs (additional fee).

Annotations for the 3-D Model:

- Annotations elucidate robot parts and control modules.
- IntelliScan identifies robotic components (available Q1 2024).
- Add custom annotations for deeper exploration (extra fee).

Assessment Creation:

- Assessments on:
    - Robot identification.
    - Control system application quizzes.
    - Control mechanism Jeopardy-style quiz.
- Upcoming quizzes on robotic programming and sensor integration.

AI Generated Universal Skill Simulator:

- Witness standard robotic operations and control procedures.
- Observe 3D animations of robots executing tasks.
- Demonstrate robotic control techniques for AI evaluation.

Interactive Simulation Scenarios:

- Simulate real-life scenarios like robot navigation and task execution.
- Design robot movement simulations (additional fee).

Incident Simulation:

- Engage with simulations highlighting robot malfunctions.
- Craft scenarios for troubleshooting (additional fee).

Communications and Signal Processing

Dive into the foundational aspects of communications, exploring the nuances of signal processing using augmented reality. Decode signals, understand communication protocols, and engage with real-world scenarios.

Features:

Knowledge Portal with Floating Annotations:

- Hero Image: Vibrant visualization of different communication signals.
- 10 Floating Knowledge Portals discuss:
    - Signal types.
    - Communication channels.
    - Digital and analog signals.
    - Signal processing techniques.
    - AI avatar elucidating complex signal theories.

3-D Model Integration:

- Engage with 3D representations of signal flow and communication devices.
- Explore a 3D model showcasing a satellite communication system.
- Utilize Q4 editing for a personalized touch.
- Optional: Incorporate personal communication device designs (additional fee).

Annotations for the 3-D Model:

- Signal components and communication devices highlighted with annotations.
- IntelliScan for advanced signal identification (Q1 2024).
- Manual annotation for tailored insights (extra fee).

Assessment Creation:

- Assessments encompass:
    - Signal identification.
    - Communication channel quizzes.
    - Signal processing Jeopardy-style quizzes.
- Upcoming quizzes on digital transformation and signal modulation.

AI Generated Universal Skill Simulator:

- Delve into standard communication procedures.
- 3D animations demonstrate signal transformations.
- Showcase signal decoding skills with AI assessment.

Interactive Simulation Scenarios:

- Real-world communication challenges simulated in AR.
- Construct custom signal processing simulations (additional fee).

Incident Simulation:

- Encounter signal interruptions and communication breakdowns.
- Design incident simulations for problem-solving (additional fee).

Renewable Energy Systems Visualization

Harness the power of renewable energy by diving deep into its systems and intricacies, all brought to life through augmented and virtual reality. This course, powered by EON's AI Assistant for Hard Skills, provides an immersive experience to understand and visualize the core components of renewable energy systems.

Features:

- **Knowledge Portal with Floating Annotations:**
  - A hero image showcasing various renewable energy systems.
  - 10 floating Knowledge Portals offering insights on:
    - Solar panels.
    - Wind turbines.
    - Hydroelectric dams.
    - Tidal power mechanisms.
    - AI Avatar explaining the working principle and energy conversion processes of each system.
- **3-D Model Integration:**
  - Detailed 3-D models from EON's library showing intricate parts of renewable energy mechanisms.
  - Interactive 3-D models, such as a solar panel or wind turbine, that allow users to explore and understand components.
- **Annotations for the 3-D model:**
  - Floating annotations on 3-D models detailing parts and their functionalities.
  - IntelliScan's image recognition-based annotations on parts like solar cells or turbine blades.
- **Automated Assessment Creation:**
  - Quizzes to test understanding of renewable energy systems:
    - Identify parts of a wind turbine.
    - Dropdown menu quizzes on energy conversion processes.
    - Jeopardy-style quizzes on renewable energy trivia.
- **AI-Generated Universal Skill Simulator (3D assessment):**
  - Demonstrations on energy conversion processes guided by an AI avatar.
  - Simulations where learners can showcase understanding of energy systems.
- **Interactive Simulation Scenarios:**
  - AI-generated real-world scenarios on how renewable energy systems impact environments.
  - Simulations on energy harvesting, conversion, and storage.
- **Incident Simulation:**

- AI avatar presenting incidents like system failures or environmental impacts.
- Assessments on how to handle these incidents efficiently.

Microelectronics and Semiconductors in VR

Embark on a journey through the microscopic world of microelectronics and semiconductors. With EON's AI Assistant for Hard Skills, experience this domain like never before, exploring the intricate components in a virtual reality setting.

Features:

Knowledge Portal with Floating Annotations:
- A hero image depicting a semiconductor wafer.
- 10 floating Knowledge Portals focusing on:
  - Transistors.
  - Diodes.
  - Integrated circuits.
  - AI Avatar explaining the fabrication and functioning of these components.

3-D Model Integration:
- Detailed 3-D models of microelectronic components and semiconductor materials.
- Interactive models of transistors or ICs, allowing an in-depth exploration.

Annotations for the 3-D model:
- Annotations detailing microelectronic components and their functionalities.
- IntelliScan's annotations on specific semiconductor materials or microchip designs.

Automated Assessment Creation:
- Quizzes to test knowledge on microelectronics:
  - Identify parts of an integrated circuit.
  - Dropdown quizzes on semiconductor properties.
  - Jeopardy-style quizzes on microelectronic innovations.

AI-Generated Universal Skill Simulator (3D assessment):
- Demonstrations on microelectronic signal processing guided by an AI avatar.
- Simulations to showcase understanding of microelectronic circuits.

Interactive Simulation Scenarios:
- AI-generated real-world scenarios on microelectronic applications in technology.
- Simulations on chip fabrication and signal processing.

Incident Simulation:

- AI avatar presenting incidents like chip failures or overheating.
- Assessments on solving these microelectronic challenges.

School of Medicine

Clinical Practice

Surgical Procedures in VR

Dive deep into the intricate world of surgical procedures through a virtual reality lens. Using the EON AI Assistant, learners will interact with realistic 3D models, gaining hands-on experience and knowledge in surgical techniques, equipment, and safety protocols.

Features:

Knowledge Portal with Floating Annotations:

- View detailed hero images of surgical operations, tools, and equipment.
- Access 10 floating knowledge portals containing:
  - High-resolution surgical images.
  - Detailed text explanations of each procedure.
  - Video demonstrations of surgical techniques.
  - AI Avatar-guided walkthroughs of common surgeries.

3-D Model Integration:

- Explore accurate 3D models of surgical tools, organs, and operation theatres sourced from EON's vast library.
- Customizable options allow the addition of specific surgical instruments or body parts.
- Upcoming features allow for text-to-3D conversion of surgical procedures.

Annotations for the 3-D Model:

- Detailed annotations on each surgical instrument, organ, and technique.
- IntelliScan offers image recognition-based annotations, enhancing the immersive experience.

Assessment Creation:

- Evaluate your surgical knowledge with:
  - Identification quizzes on surgical tools.
  - Locate and identify organs or operation steps.
  - Jeopardy-style quizzes on surgical procedures and protocols.

AI Generated Universal Skill Simulator:

- Master standard surgical procedures through AI-generated simulations.
- Visualize and practice techniques with AI guidance, ensuring accuracy and safety.

Interactive Simulation Scenarios:

- Engage in real-life surgical scenarios, presented with 3-D models and Knowledge Portals.
- Customize and create your surgical simulations for a personalized learning experience.

Incident Simulation:

- Train for unexpected surgical complications and incidents with AI-guided simulations.
- Evaluate and enhance your problem-solving skills in high-pressure situations.

Radiology and Imaging Techniques

Step into the world of radiology and imaging through virtual reality. Using EON AI Assistant, learners delve into the nuances of imaging techniques, understanding the machinery, processes, and interpretation of results.

Features:

Knowledge Portal with Floating Annotations:

- Discover hero images of various imaging machines and sample results.
- Access 10 knowledge portals containing:
  - Detailed radiology images.
  - Textual insights into each imaging technique.
  - Video demonstrations of machines in action.
  - AI Avatar-guided explanations of radiological results.

3-D Model Integration:

- Explore 3D models of MRI, CT scan, X-ray, and other imaging machines.
- Customizable features allow learners to focus on specific parts of the machinery or specific imaging techniques.

Annotations for the 3-D Model:

- Gain insights through annotations on each part of the imaging machinery and on sample results.

Assessment Creation:

- Assess your knowledge of radiology with:
  - Identification quizzes on machinery parts and functions.
  - Locate and identify abnormalities in sample images.

AI Generated Universal Skill Simulator:

- Interact with AI-generated simulations of imaging processes.

- Practice the process of operating machines and interpreting results with AI guidance.

Interactive Simulation Scenarios:

- Participate in real-life imaging scenarios, optimizing machinery settings and interpreting results.

Incident Simulation:

- Prepare for unexpected complications or abnormal results with AI-guided simulations.
- Enhance your diagnostic skills in complex situations.

Clinical Skills Training in Virtual Environment

Hone your clinical skills in a virtual setting. The EON AI Assistant offers an immersive experience in patient assessment, diagnosis, and treatment through detailed 3D simulations and interactive scenarios.

Features:

Knowledge Portal with Floating Annotations:

- Access hero images of clinical settings, tools, and common conditions.
- Engage with 10 knowledge portals offering:
  - Clinical scenario images.
  - Detailed text descriptions of clinical processes.
  - Video demonstrations of patient assessments.
  - AI Avatar-guided walkthroughs of diagnosis and treatment.

3-D Model Integration:

- Interact with 3D models of clinical tools, organs, and virtual patients.
- Customize your learning with specific clinical scenarios or tools of interest.

Annotations for the 3-D Model:

- Benefit from detailed annotations on clinical tools, techniques, and patient conditions.

Assessment Creation:

- Evaluate your clinical skills with:
  - Quizzes on tool identification and usage.
  - Diagnosis-based scenarios and case studies.

AI Generated Universal Skill Simulator:

- Master clinical procedures through AI simulations.
- Practice patient assessments, diagnosis techniques, and treatments in a controlled environment.

Interactive Simulation Scenarios:

- Engage in real-life clinical scenarios, diagnosing and treating virtual patients.
- Customize and create your clinical scenarios for a tailored learning journey.

Incident Simulation:

- Train for unexpected clinical complications with AI-guided simulations.
- Improve your problem-solving and diagnostic abilities in challenging situations.

Anatomy and Physiology Visualization

Delve deep into the intricacies of the human body with our "Anatomy and Physiology Visualization" course. Powered by EON Reality's revolutionary AI Assistant, this course integrates cutting-edge augmented and virtual reality technologies to provide learners with an immersive, experiential study of human anatomy and physiology.

Knowledge Portal with Floating Annotations:

- Hero Image: Detailed visualization of the human body system.
- 10 Floating Knowledge Portals showcasing:
  - Various organ systems, including cardiovascular, respiratory, and nervous systems.
  - Informative images, texts, and videos on each organ and its function.
  - An AI Avatar offering guided tours, highlighting the physiology behind each organ.

3-D Model Integration:

- Engage with 3D models of organs, tissues, and cells sourced from EON's comprehensive library.
- For specialized topics, imported CAD models of specific biological structures are utilized.
- Future upgrades will allow direct text-to-3D model conversions of complex physiological processes.

Annotations for the 3-D Model:

- Interact with auto-generated floating annotations detailing organ functionalities.
- The upcoming IntelliScan feature will recognize specific body parts and provide instant annotations.
- Customize your learning by manually adding annotations to delve deeper into specific areas of interest.

Assessment Creation Automatic:

- Test your knowledge using varied quizzes including locate, identify, and Jeopardy-style quizzes on organs, tissues, and physiological processes.
- Upcoming quizzes will introduce innovative formats such as matching, ordering, and short answer quizzes to evaluate understanding comprehensively.

AI Generated Universal Skill Simulator:

- Master the top procedures in anatomy and physiology through 3D simulations.
- Witness auto-generated physiological processes transformed into 3D animations guided by an AI avatar.
- Practice, demonstrate, and get evaluated on intricate processes like blood circulation, nerve impulses, etc.

Interactive Simulation Scenarios:

- Engage with real-life scenarios showcasing the human body in action.
- Delve deeper by creating manual simulations, exploring topics like cellular respiration or muscular movements.

Incident Simulation:

- Challenge yourself with simulated medical incidents. Evaluate your understanding by diagnosing and understanding the underlying anatomy and physiology.
- Design your own incident simulations for deeper explorations.

Telemedicine and Virtual Health

Explore the future of healthcare with our "Telemedicine and Virtual Health" course. Utilizing EON's AI Assistant, dive into the world of remote medical care, understanding technologies, processes, and best practices in virtual health.

Knowledge Portal with Floating Annotations:

- Hero Image: A visualization of the telemedicine interface.
- 10 Floating Knowledge Portals illustrating:
    - Telehealth platforms, patient portals, and remote diagnostics.
    - Media-rich content on telehealth benefits, challenges, and emerging trends.

- AI Avatar-guided walkthroughs of virtual health consultations and procedures.

3-D Model Integration:

- Interact with 3D models of telehealth equipment, virtual clinics, and diagnostic tools.
- Experience the future with text-to-3D conversions illustrating telehealth scenarios and innovations.

Annotations for the 3-D Model:

- Access insightful annotations on virtual healthcare equipment and processes.
- Use the IntelliScan feature for recognizing and detailing virtual healthcare technologies.
- Customize your learning by annotating specific areas of interest in telemedicine.

Assessment Creation Automatic:

- Assess your understanding of telehealth technologies and best practices through diverse quizzes.
- Upcoming quizzes will deepen your grasp, focusing on virtual health ethics, technologies, and patient interactions.

AI Generated Universal Skill Simulator:

- Simulate virtual health consultations, mastering standard operation procedures in telemedicine.
- Learn through 3D animations on remote diagnostics, patient communication, and more.

Interactive Simulation Scenarios:

- Delve into real-life telemedicine scenarios, from virtual check-ups to remote surgeries.
- Create manual simulations to explore challenging telehealth situations.

Incident Simulation:

- Tackle virtual health incidents, analyzing potential challenges and solutions in remote healthcare.
- Design incident simulations focusing on telemedicine complexities.

Faculty of Economics and Business

Finance and Accounting

Stock Market Simulations

Dive into the intricate world of the stock market using immersive VR simulations. Engage with dynamic 3D models of stock exchanges, trading floors, and stock portfolios, all while an AI avatar guides you through the ebbs and flows of trading.

Features:

- **Knowledge Portal with Floating Annotations:**
  - A hero image showcasing a bustling stock exchange.
  - 10 interactive knowledge portals featuring stock charts, trading techniques, and market analysis.
  - AI Avatar narrating the history, key terminologies, and trading methodologies of the stock market.
- **3-D Model Integration:**
  - Detailed models of stock exchanges from around the world.
  - Placeholder images of iconic traders and stock charts.
  - Illustrative example: 3-D model of Wall Street's iconic Charging Bull.
- **Annotations for the 3-D Model:**
  - Labels on key areas of stock exchanges.
  - IntelliScan feature explaining stock market indices and metrics.
  - Users can add annotations on favorite stocks and indices.
- **Assessment Creation:**
  - Quizzes on stock market history, trading strategies, and market trends.
  - Future quizzes to match companies with their stock ticker symbols and ordering stock market events chronologically.
- **AI Generated Universal Skill Simulator:**
  - Simulations on buying and selling stocks, reading stock charts, and portfolio management.
  - 3-D animations of stock trading scenarios with AI avatar guidance.
- **Interactive Simulation Scenarios:**
  - AI-generated scenarios of bull and bear markets, allowing users to make trading decisions in a simulated environment.

    - Manual creation of custom stock market scenarios.
- Incident Simulation:
    - Scenarios of stock market crashes and rebounds.
    - Assessment of user decisions during high-pressure trading situations.

Corporate Finance Strategies in VR

Experience the world of corporate finance in virtual reality. Navigate through 3D models of corporate boardrooms, balance sheets, and financial strategies while receiving guidance from the AI avatar on successful financial decision-making.

Features:

- Knowledge Portal with Floating Annotations:
    - A hero image of a corporate boardroom in action.
    - 10 knowledge portals detailing financial statements, investment strategies, and risk management techniques.
    - AI Avatar explaining the nuances of capital budgeting, mergers, and acquisitions.
- 3-D Model Integration:
    - 3D representations of financial charts, graphs, and corporate hierarchies.
    - Placeholder images of renowned corporate finance books and authors.
    - Illustrative example: 3-D model of a corporate M&A scenario.
- Annotations for the 3-D Model:
    - Labels on key financial metrics and indicators.
    - IntelliScan detailing ROI, NPV, and IRR calculations.
    - User-added annotations on preferred financial strategies.
- Assessment Creation:
    - Quizzes on financial terminologies, investment decisions, and risk assessment.
    - Future quizzes on financial statement analysis and financial forecasting.
- AI Generated Universal Skill Simulator:
    - Simulations on creating a financial plan, budgeting, and financial forecasting.
    - 3-D animations on evaluating investment decisions with AI guidance.
- Interactive Simulation Scenarios:
    - AI-generated scenarios on corporate financial planning and restructuring.
    - Manual creation of custom finance strategy scenarios.
- Incident Simulation:
    - Real-life corporate finance dilemmas and solutions.
    - Assessment based on users' financial decision-making skills.

Accounting Principles with Virtual Tutorials

Delve deep into the foundations of accounting using virtual tutorials. Interact with 3D ledgers, balance sheets, and income statements while the AI avatar elucidates accounting principles and practices.

Features:

- Knowledge Portal with Floating Annotations:
  - A hero image of a traditional ledger book and calculator.
  - 10 knowledge portals detailing types of accounts, double-entry bookkeeping, and financial statement preparations.
  - AI Avatar elaborating on the principles of accounting and financial reporting.
- 3-D Model Integration:
  - 3D visuals of accounting offices, ledgers, and balance sheets.
  - Placeholder images of renowned accountants and accounting textbooks.
  - Illustrative example: 3-D model of a ledger entry demonstration.
- Annotations for the 3-D Model:
  - Labels on key accounting entries and financial statements.
  - IntelliScan explaining debits, credits, and financial ratios.
  - Users can add annotations to highlight specific accounting principles.
- Assessment Creation:
  - Quizzes on accounting terminologies, principles, and financial statement preparation.
  - Future quizzes on advanced accounting concepts and financial ratio analysis.
- AI Generated Universal Skill Simulator:
  - Simulations on journal entry, ledger postings, and trial balance preparations.
  - 3-D animations showcasing the accounting cycle with AI avatar explanations.
- Interactive Simulation Scenarios:
  - AI-identified scenarios on preparing complex financial statements and reconciliations.
  - Manual creation of custom accounting scenarios.
- Incident Simulation:
  - Scenarios focusing on accounting errors and their rectifications.
  - Assessment on users' ability to identify and correct accounting mistakes.

Investment Banking and Portfolio Management

Dive deep into the world of investment banking and portfolio management using the EON AI Assistant for Hard Skills. Experience augmented and virtual reality simulations, interact with 3D models of financial instruments, and leverage the AI's capability to guide and assess your understanding of intricate financial concepts and strategies.

Features:

Knowledge Portal with Floating Annotations:
- Display a hero image of Wall Street or a major financial institution.
- Floating knowledge portals offering detailed insights into:
  - Major financial instruments.
  - Investment banking processes.
  - Portfolio diversification strategies.
  - Mergers and Acquisitions scenarios.
- AI Avatar explaining complex financial jargons, strategies, and market trends.

3-D Model Integration:
- 3-D models of stock exchanges, trading floors, and various financial instruments.
- Explore a 3-D model of a stock ticker as an example.
- Users have the option to import their financial data models.

Annotations for the 3-D Model:
- Annotations highlighting key components of trading platforms and financial instruments.
- IntelliScan feature identifies and annotates critical market trends.

Assessment Creation:
- Quizzes testing knowledge on investment strategies, financial instruments, and market predictions.
- Advanced quizzes involving real-time trading scenarios and portfolio diversification challenges.

AI Generated Universal Skill Simulator:
- Simulate portfolio management scenarios with real-time market data.
- AI-guided investment strategy sessions.
- Demonstrate buy/sell decisions, with AI assessing investment choices.

Interactive Simulation Scenarios:
- Simulate real-life trading floor scenarios.
- User-generated simulations analyzing historical market events and predicting future trends.

Incident Simulation:
- AI presents financial crises or market crashes.
- Users are assessed on crisis management and quick decision-making skills.

Virtual Economy and Market Predictions

Embark on an experiential journey into the world of virtual economies and market predictions using the EON AI Assistant for Hard Skills. Experience immersive simulations, explore virtual economies in 3D, and gain deep insights into predicting market behaviors in virtual spaces.

Features:

Knowledge Portal with Floating Annotations:
- Display a hero image of a virtual marketplace or digital currency exchange.
- Floating knowledge portals diving into:
  - Basics of virtual economies.
  - Cryptocurrency trends.
  - Virtual real estate.
  - Digital goods trading.
- AI Avatar detailing the intricacies of virtual marketplaces and currency fluctuations.

3-D Model Integration:
- 3-D models showcasing virtual marketplaces, cryptocurrency exchanges, and virtual commodities.
- Explore a 3-D model of a cryptocurrency coin as an example.
- Import personal data models related to virtual assets and marketplaces.

Annotations for the 3-D Model:
- Annotations explaining virtual assets, currency algorithms, and more.
- IntelliScan highlights key trends and anomalies in the virtual market.

Assessment Creation:
- Quizzes on virtual economy concepts, digital trading, and cryptocurrency predictions.
- Advanced quizzes simulating virtual trading environments and digital asset valuations.

AI Generated Universal Skill Simulator:
- Simulate trading scenarios within virtual economies.
- AI-guided virtual asset management and investment sessions.
- Demonstrate trading strategies in virtual marketplaces, assessed by AI.

Interactive Simulation Scenarios:
- Engage in virtual market simulations.
- User-generated scenarios predicting virtual market behaviors based on historical data.

Incident Simulation:
- AI highlights incidents like virtual market crashes or digital frauds.

- Users are assessed on their ability to navigate challenges in the virtual economic space.

Faculty of Mechanical Engineering and Naval Architecture

Engineering Design and Prototyping

3D Modeling and CAD in AR

Delve into the world of 3D modeling combined with Augmented Reality (AR). Explore CAD designs, learn about AR's enhancement in visualization, and challenge your understanding through real-life scenarios and AI-driven assessments.

Knowledge Portal with Floating Annotations:

- A vibrant hero image illustrating the essence of 3D Modeling and CAD.
- 10 dedicated knowledge portals elaborating on:
  - Different types of CAD software.
  - Principles of 3D modeling.
  - AR integration in 3D modeling.
  - Videos of CAD design processes.
  - An AI avatar explaining CAD design nuances and AR's role in enhancing design visualization.

3-D Model Integration:

- Access to a wide range of 3D models showcasing intricate CAD designs.
- Interactive sessions with real-life CAD models like architectural structures, machinery parts, and more.
- If a particular model isn't on hand, related placeholder images will be employed.
- A highlight 3D model of a complex mechanical structure to demonstrate CAD capabilities.
- Upcoming features allow personal CAD model imports and the transformation of textual data to 3D visuals.

Annotations for the 3-D Model:

- Detailed annotations elucidating the different parts and principles of the CAD designs.
- IntelliScan features highlight design methodologies and principles effectively.

Assessment Creation:

- A series of quizzes testing understanding of CAD design principles, AR integration benefits, and 3D modeling concepts.

AI Generated Universal Skill Simulator:

- Engaging sessions guiding learners through standard CAD design procedures.
- Animated 3D simulations teaching CAD design intricacies.

Interactive Simulation Scenarios:

- Real-life scenarios like building a mechanical part using CAD and visualizing it in AR.
- Manual simulation creation options to simulate a personalized design process.

Incident Simulation:

- Situational learning where AI presents design challenges and assesses user solutions.

Fluid Mechanics and Thermodynamics

Embark on a journey through the principles of fluid flow and heat transfer. Interact with dynamic systems, understand the intricacies of fluid mechanics and thermodynamics, and test your knowledge through real-world challenges and assessments.

Knowledge Portal with Floating Annotations:

- A captivating hero image representing fluid flow and heat transfer.
- 10 comprehensive knowledge portals touching on:
    - Fundamental principles of fluid mechanics.
    - Basics of thermodynamics.
    - Real-world applications of these principles.
    - Videos of fluid flow phenomena and heat transfer processes.
    - An AI avatar elucidating the connections between fluid mechanics and thermodynamics.

3-D Model Integration:

- Dive into interactive 3D models of fluid systems, turbines, and heat exchangers.
- For unavailable models, relevant fluid mechanics and thermodynamics images will be utilized.

Annotations for the 3-D Model:

- In-depth annotations detailing thermodynamics laws and fluid behavior.
- IntelliScan showcases different fluid phenomena and thermodynamic processes.

Assessment Creation:

- Quizzes covering fluid properties, thermodynamic laws, and their applications.

AI Generated Universal Skill Simulator:

- Animated sessions detailing standard procedures in fluid systems and thermodynamics.

Interactive Simulation Scenarios:

- AI-driven real-life scenarios like designing an efficient coolant system.
- Options to manually simulate custom fluid and heat experiments.

Incident Simulation:

- AI proposes challenges like system leaks or heat inefficiencies, and learners devise solutions.

Material Science and Metallurgy Visualization

Discover the fascinating world of metals and materials. Dive deep into metallurgical processes, explore the properties of various materials, and challenge yourself with AI-curated scenarios and real-world metallurgical challenges.

Knowledge Portal with Floating Annotations:

- A striking hero image showcasing metallurgical processes.
- 10 insightful knowledge portals on:
    - Different metals and alloys.
    - Metallurgical processes.
    - Material properties and their applications.
    - Videos detailing smelting, refining, and alloy creation.
    - An AI avatar narrating the journey of metals from ores to end products.

3-D Model Integration:

- Interactive 3D models of smelting furnaces, alloy structures, and more.

- Placeholder images for specific unattainable metals or processes.

Annotations for the 3-D Model:

- Annotations elucidating metal properties and metallurgy techniques.
- IntelliScan highlights the transformation of raw materials into usable metals.

Assessment Creation:

- Quizzes on metallurgical principles, alloy creation, and material science concepts.

AI Generated Universal Skill Simulator:

- Animated walkthroughs of standard metallurgical procedures and material testing.

Interactive Simulation Scenarios:

- AI-curated scenarios, such as refining an ore or testing metal properties.
- Manual simulation options for custom material experiments.

Incident Simulation:

- AI introduces metallurgical challenges, like impurity handling, and learners find solutions.

Naval Architecture and Ship Design in VR

Embark on an interactive journey through the world of naval architecture and ship design with the EON AI Assistant. This course uses augmented and virtual reality to transform intricate concepts of ship design into immersive 3D experiences.

Features:

Knowledge Portal with Floating Annotations:

- Explore the intricacies of ship hull designs, propulsion systems, and marine structures.
- Engage with 10 floating knowledge portals featuring images, text, videos, and an AI avatar elucidating the nuances of naval architecture.

3-D Model Integration:

- Dive deep into the 3D models of various ship types sourced from EON's extensive library.
- Examine specific ship components with placeholders providing additional context.
- Witness a detailed 3-D model of a cargo ship as a practical example.
- Options to import custom CAD models of unique ship designs.

Annotations for the 3-D Model:
- Explore auto-generated annotations detailing ship components.
- Experience image recognition-based annotations to understand vessel components better, available from Q1 2024.

Assessment Creation:
- Test your understanding through quizzes based on ship design components.
- Challenge yourself with locate, identify, and Jeopardy-style quizzes about naval architecture.

AI Generated Universal Skill Simulator:
- Grasp standard shipbuilding procedures through 3D simulations.
- Demonstrate ship design processes, receiving feedback from the AI avatar on your performance.

Interactive Simulation Scenarios:
- Venture into real-life ship design scenarios, complete with 3-D models.
- Create custom scenarios based on specific naval architecture challenges.

Incident Simulation:
- Confront real-world marine incidents, presented by the AI avatar.
- Evaluate your problem-solving skills by addressing these incidents.

Automotive Engineering and Vehicle Dynamics

Accelerate your learning journey in automotive engineering and vehicle dynamics using the EON AI Assistant. This course employs augmented and virtual reality to bring to life the principles of vehicle design, mechanics, and dynamics.

Features:

Knowledge Portal with Floating Annotations:
- Navigate the complexities of vehicle aerodynamics, engine mechanics, and suspension systems.
- Interact with 10 knowledge portals, each packed with images, text, videos, and an AI avatar explaining automotive engineering concepts.

3-D Model Integration:
- Delve into 3D models of various vehicle types, sourced from EON's rich library.

- Investigate specific vehicle components, with placeholders offering deeper insights.
- Get hands-on with a 3-D model of a race car as a prime example.
- Opportunity to integrate personal CAD models of unique vehicle designs.

Annotations for the 3-D Model:

- Discover auto-generated annotations detailing car components.
- Use image recognition-based annotations for a thorough understanding of vehicle parts, available from Q1 2024.

Assessment Creation:

- Assess your knowledge with quizzes on vehicle design and dynamics.
- Engage in identify, locate, and Jeopardy-style quizzes centered around automotive engineering.

AI Generated Universal Skill Simulator:

- Master standard automotive engineering procedures with 3D simulations.
- Exhibit car design techniques, with the AI avatar evaluating your prowess.

Interactive Simulation Scenarios:

- Delve into real-world automotive scenarios accompanied by 3-D models.
- Craft simulations based on specific engineering challenges in the automotive industry.

Incident Simulation:

- Tackle real-world vehicle incidents as presented by the AI avatar.
- Test your critical thinking by addressing automotive challenges.

Faculty of Architecture

Design and Urban Planning

Building Design in Virtual Reality

Explore the world of architecture and urban planning like never before with our Building Design in Virtual Reality course, powered by the EON AI Assistant for Hard Skills. This innovative course combines the latest technologies, including augmented and virtual reality, to provide an immersive learning experience for aspiring architects and urban planners.

Course Features:

Knowledge Portal with Floating Annotations:

- Dive into architectural wonders and cityscapes with 10 floating Knowledge Portals.
- View and interact with images, text, videos, and AI Avatars that explain architectural concepts.
- Gain a deeper understanding of iconic structures and urban planning principles.

3-D Model Integration:

- Access EON's library of 3-D assets for architectural models.
- Customize your designs by importing personal CAD models.
- In 2024, experience a text-to-3D conversion tool upgrade for even more design possibilities.

Annotations for the 3-D Model:

- Explore detailed annotations for architectural elements.
- Utilize IntelliScan for automatic image recognition-based annotations in Q1 2024.
- Add your own annotations for personalized learning.

Automated Assessment Creation:

- Test your architectural knowledge with various assessment tools:
  - Standard dropdown menu quizzes.
  - Locate, identify, and Jeopardy-style quizzes.
  - Expect new quiz formats in 2024.
- Assess your understanding of architectural concepts.

AI-Generated Universal Skill Simulator (3D assessment):

- Practice top architectural procedures in 3-D.
- Follow auto-generated procedures aligned with academic curriculums.
- Get hands-on experience with architectural processes guided by AI.

Interactive Simulation Scenarios (add-on module):

- Create your own architectural simulations with Eon Interact (extra fee applies).
- Dive into real-life architectural scenarios with 3-D models and Knowledge Portals.

Incident Simulation (add-on module):

- Identify architectural incidents using AI avatars and the Knowledge Portal (manual process).
- Evaluate your response to architectural challenges.
- Create your own incident simulations with Eon Interact (extra fee applies).

Urban Planning and City Visualization

Unlock the secrets of urban planning and city visualization with our cutting-edge course powered by the EON AI Assistant for Hard Skills. Immerse yourself in the world of city

development, learn about sustainable urban design, and create virtual cityscapes that inspire the future.

Course Features:

- **Knowledge Portal with Floating Annotations:**
  - Dive into urban planning concepts with 10 floating Knowledge Portals.
  - Access images, text, videos, and AI Avatars to explain urban development principles.
  - Explore the intricacies of city design and visualization.
- **3-D Model Integration:**
  - Utilize 3-D models from EON's extensive library for city visualization.
  - Import your own CAD models for customized urban planning projects.
  - Await the 2024 text-to-3D conversion tool upgrade for advanced design options.
- **Annotations for the 3-D Model:**
  - Discover detailed annotations for urban planning elements.
  - Benefit from IntelliScan for automatic image recognition-based annotations in Q1 2024.
  - Add personalized annotations to enhance your learning experience.
- **Automated Assessment Creation:**
  - Test your urban planning knowledge through various assessment tools:
    - Standard dropdown menu quizzes.
    - Locate, identify, and Jeopardy-style quizzes.
    - Anticipate new quiz formats in 2024.
  - Assess your grasp of urban planning and visualization concepts.
- **AI-Generated Universal Skill Simulator (3D assessment):**
  - Practice top urban planning procedures in 3-D.
  - Follow auto-generated procedures aligned with academic curriculums.
  - Engage with practical urban planning processes guided by AI.
- **Interactive Simulation Scenarios (add-on module):**
  - Craft your own urban planning simulations with Eon Interact (additional fee applies).
  - Explore real-world urban development scenarios with 3-D models and Knowledge Portals.
- **Incident Simulation (add-on module):**
  - Identify urban planning incidents using AI avatars and the Knowledge Portal (manual process).
  - Evaluate your response to urban planning challenges.
  - Create your own incident simulations with Eon Interact (additional fee applies).

Explore the world of historical architecture and restoration through cutting-edge technology with EON AI Assistant for Hard Skills. This course leverages augmented and virtual reality, artificial intelligence, and immersive experiences to delve into the intricacies of historical architectural marvels and their restoration. Engage with historical sites, learn about architectural details, and develop essential hard skills required in this specialized field.

Features:

Knowledge Portal with Floating Annotations:

- Immerse yourself in the grandeur of historical architecture with stunning hero images and visual resources.
- Access 10 floating Knowledge Portals enriched with historical images, insightful texts, educational videos, and AI Avatars offering expert explanations on architectural elements and restoration techniques.

3-D Model Integration:

- Explore lifelike 3-D models of iconic historical structures sourced from EON's extensive library.
- Where default models aren't available, placeholders like architectural sketches will still provide a visual reference.
- In 2024, anticipate an exciting text-to-3D conversion tool (at an additional fee) to enhance your understanding of architectural details.

Annotations for the 3-D Model:

- Seamlessly navigate through annotated 3-D models, with automatically generated annotations that provide historical context and architectural insights.
- In early 2024, the IntelliScan feature (at no additional cost) will introduce image recognition-based annotations for enhanced learning.
- For a deeper understanding, you can manually add annotations at an extra cost.

Automated Assessment Creation:

- Test your knowledge with assessment tools specifically designed for historical architecture and restoration.
- Choose from various quiz formats, including standard dropdown, locate, identify, jeopardy-style, and look forward to new quiz types in 2024.
- Evaluate your expertise in architectural history and restoration techniques.

AI-Generated Universal Skill Simulator (3D assessment):

- Immerse yourself in the restoration process as you interact with 3-D simulations guided by an AI avatar.
- Practice essential procedures for historical building preservation and restoration.
- The AI compares and assesses your performance to ensure you master these hard skills.

Interactive Simulation Scenarios (add-on module):

- Dive into real-life scenarios involving historical architectural restoration, presented with 3-D models and Knowledge Portals.
- Use Eon Interact to create your own immersive simulations and gain practical experience (comes at an additional fee).

Incident Simulation (add-on module):

- Simulate incidents and challenges related to historical architecture and restoration.
- Develop problem-solving skills as you navigate real-life scenarios.
- Create customized incident simulations using Eon Interact (additional fee required).

Landscape Architecture in AR

Embark on a journey into the realm of landscape architecture in augmented reality with EON AI Assistant for Hard Skills. This course merges the power of AI, AR, and VR to offer an in-depth exploration of landscape design, sustainability, and the principles of green architecture. Gain practical experience and hard skills in designing and transforming outdoor spaces.

Features:

Knowledge Portal with Floating Annotations:

- Immerse yourself in the world of landscape architecture with captivating hero images and rich visual resources.
- Access 10 floating Knowledge Portals enriched with images, texts, videos, and AI Avatars providing insights into landscape design, sustainability, and green architecture.

3-D Model Integration:

- Explore lifelike 3-D models of landscapes, plants, and design elements sourced from EON's extensive library.
- In cases where default models aren't available, image placeholders will guide your understanding.
- Anticipate the introduction of a text-to-3D conversion tool in 2024 (additional fee may apply).

Annotations for the 3-D Model:

- Dive into annotated 3-D models with automatically generated annotations explaining landscape design and sustainability principles.
- In early 2024, enjoy the IntelliScan feature (no extra cost) for image recognition-based annotations.
- Add your own annotations for a deeper understanding (additional cost).

Automated Assessment Creation:

- Assess your knowledge with tailored quizzes focusing on landscape architecture, sustainability, and green design.
- Choose from various quiz formats, including standard dropdown, locate, identify, jeopardy-style, and anticipate new quiz types in 2024.
- Evaluate your expertise in landscape architecture and sustainability practices.

AI-Generated Universal Skill Simulator (3D assessment):

- Immerse yourself in 3-D simulations guided by an AI avatar to practice landscape design and sustainability procedures.
- Develop hard skills in landscape architecture and assess your performance with AI guidance.

Interactive Simulation Scenarios (add-on module):

- Dive into real-life landscape design scenarios using Eon Interact.
- Create custom landscape simulations and gain hands-on experience (additional fee applies).

Incident Simulation (add-on module):

- Simulate landscape-related incidents and challenges to enhance your problem-solving skills.
- Create custom incident simulations using Eon Interact (additional fee required).

Embark on a journey into the world of sustainable design and green architecture with EON AI Assistant for Hard Skills. This course integrates the power of AI, augmented reality, and virtual reality to explore sustainable architectural principles, green building techniques, and eco-friendly design practices. Acquire essential hard skills for a sustainable future.

Features:

Knowledge Portal with Floating Annotations:

- Immerse yourself in the world of sustainable design and green architecture with captivating hero images and rich visual resources.
- Access 10 floating Knowledge Portals enriched with images, texts, videos, and AI Avatars providing insights into sustainable architecture and green building practices.

3-D Model Integration:

- Explore lifelike 3-D models of sustainable buildings, eco-friendly materials, and architectural elements sourced from EON's extensive library.
- In cases where default models aren't available, image placeholders will guide your understanding.
- Anticipate the introduction of a text-to-3D conversion tool in 2024 (additional fee may apply).

Annotations for the 3-D Model:

- Dive into annotated 3-D models with automatically generated annotations explaining sustainable design and green architecture principles.
- In early 2024, enjoy the IntelliScan feature (no extra cost) for image recognition-based annotations.
- Add your own annotations for a deeper understanding (additional cost).

Automated Assessment Creation:

- Assess your knowledge with tailored quizzes focusing on sustainable design, green building, and eco-friendly architecture.
- Choose from various quiz formats, including standard dropdown, locate, identify, jeopardy-style, and anticipate new quiz types in 2024.
- Evaluate your expertise in sustainable design and green architectural practices.

AI-Generated Universal Skill Simulator (3D assessment):

- Immerse yourself in 3-D simulations guided by an AI avatar to practice sustainable design and green building procedures.
- Develop hard skills in eco-friendly architecture and assess your performance with AI guidance.

Interactive Simulation Scenarios (add-on module):

- Dive into real-life sustainable design scenarios using Eon Interact.
- Create custom sustainability simulations and gain hands-on experience (additional fee applies).

Incident Simulation (add-on module):

- Simulate green architecture-related incidents and challenges to enhance your problem-solving skills.
- Create custom incident simulations using Eon Interact (additional fee required).

Faculty of Civil Engineering

Infrastructure and Construction

Structural Engineering Simulations

Dive deep into the world of Structural Engineering with immersive simulations. Engage with 3D models of structural elements, experience the nuances of construction materials, and test your knowledge with interactive quizzes.

Knowledge Portal with Floating Annotations:

- **Hero Image**: Display of a skyscraper under construction.
- **Floating Knowledge Portals**: Explore 10 portals, each dedicated to topics such as beam design, column interactions, load-bearing walls, and more.
- **AI Avatar**: Your personal guide elucidates structural concepts, from the basics of stress and strain to the intricacies of load distribution.

3-D Model Integration:

- Browse through detailed models sourced from EON's vast library, including a comprehensive model of a suspension bridge.

- Dive deep into the details with the option to import specific CAD models of structural elements.

Annotations & Assessment:

- Engage with auto-generated floating annotations detailing crucial structural components.
- Test your knowledge with quizzes, ranging from identifying structural elements to more complex stress analysis problems.

Skill Simulator & Interactive Simulations:

- Immerse yourself in scenarios where you'll interact with 3D structural components, guided by the AI avatar.
- Experience simulations that present real-life structural challenges, demanding critical thinking and problem-solving.

Incident Simulation:

- Encounter structural failures in simulations and learn the reasons behind such failures to prevent them in real-life scenarios.

Geotechnical Engineering and Soil Mechanics

Venture into the realm of the earth with Geotechnical Engineering and Soil Mechanics. Understand soil properties, delve into foundation designs, and grasp the interaction between soil and structures.

Knowledge Portal with Floating Annotations:

- Hero Image: A cross-sectional view of the earth, showing various soil layers.
- Floating Knowledge Portals: Discover 10 portals focusing on soil types, water table levels, soil tests, and more.
- AI Avatar: Your guide takes you through the importance of understanding soil properties and its impact on construction.

3-D Model Integration:

- Access detailed models like the one showcasing different foundation types and their suitability based on soil conditions.

Annotations & Assessment:

- Encounter annotated 3D models of soil layers and foundation types.
- Challenge yourself with quizzes on soil identification, foundation suitability, and other geotechnical concerns.

Skill Simulator & Interactive Simulations:

- Simulate soil testing procedures and interpret the results with guidance from the AI avatar.
- Engage in interactive scenarios like choosing the right foundation based on soil properties.

Incident Simulation:

- Analyze simulated scenarios where poor geotechnical understanding led to structural failures.

Transportation and Traffic Engineering in VR

Navigate the complexities of transportation and traffic engineering in the virtual realm. Understand transportation systems, traffic flow theories, and the design of efficient transport infrastructure.

Knowledge Portal with Floating Annotations:

- Hero Image: An urban setting with various transportation modes.
- Floating Knowledge Portals: Explore 10 portals dedicated to topics like traffic signal design, transportation planning, traffic flow models, and more.
- AI Avatar: Your guide helps you navigate the world of transportation and the intricacies of traffic management.

3-D Model Integration:

- Delve into models of urban intersections, highway designs, and public transportation systems.

Annotations & Assessment:

- Examine annotated models detailing transportation elements, from road markings to signal timings.
- Take quizzes on transport planning, traffic flow optimization, and more.

Skill Simulator & Interactive Simulations:

- Step into simulated traffic management centers and make decisions to ensure smooth traffic flow.
- Interact with transport scenarios, design road networks, and manage transportation systems under guidance from the AI avatar.

Incident Simulation:

- Analyze incidents where traffic congestion or mismanagement led to gridlocks or accidents.

Environmental Engineering and Waste Management

Unlock the power of immersive learning with EON AI Assistant for Hard Skills in Environmental Engineering and Waste Management. This course leverages cutting-edge technology to provide an engaging and comprehensive educational experience. Here's a detailed breakdown of the course features:

Knowledge Portal with Floating Annotations:

- Dive into the world of environmental engineering and waste management with visually rich content.
- Explore 10 floating Knowledge Portals that combine images, text, videos, and AI Avatars to explain critical concepts.
- Get a clear understanding of environmental systems, waste treatment processes, and sustainable practices.

3-D Model Integration:

- Immerse yourself in 3-D models sourced from EON's vast library.
- Visualize complex environmental systems, including wastewater treatment plants and air pollution control devices.
- Gain hands-on experience with environmental infrastructure through interactive 3-D models.

Annotations for the 3-D Model:

- Learn with ease as auto-generated annotations provide context to 3-D models.
- Understand the intricate components of environmental systems and waste management facilities.
- Optionally, enrich your knowledge by manually adding annotations to enhance your learning experience.

Automated Assessment Creation:

- Test your knowledge with various assessment tools, including dropdown quizzes, locate quizzes, and identify quizzes.
- Evaluate your grasp of environmental engineering principles.
- Prepare for the environmental engineering industry with tailored assessments.

AI-Generated Universal Skill Simulator (3D Assessment):

- Master the top five standard operation procedures in environmental engineering.
- Practice critical skills in a 3-D simulated environment guided by an AI avatar.
- Receive real-time feedback on your performance to refine your abilities.

Interactive Simulation Scenarios (add-on module):

- Apply your environmental engineering knowledge to real-world scenarios.
- Create custom simulations using Eon Interact to address environmental challenges.
- Develop practical problem-solving skills for complex environmental issues.

Incident Simulation (add-on module):

- Respond to environmental incidents and emergencies.
- Simulate crisis management and mitigation strategies.
- Enhance your preparedness for real-world environmental challenges.

Hydraulic Engineering and Water Resources

Discover the dynamic world of Hydraulic Engineering and Water Resources through the innovative EON AI Assistant for Hard Skills. This course offers an engaging and in-depth exploration of hydraulic systems and water management. Here's a detailed look at the course features:

Knowledge Portal with Floating Annotations:

- Delve into the realm of hydraulic engineering with captivating visual content.
- Access 10 floating Knowledge Portals enriched with images, text, videos, and AI Avatars to elucidate critical concepts.
- Grasp the intricacies of fluid mechanics, water distribution, and hydraulic infrastructure.

3-D Model Integration:

- Immerse yourself in 3-D models from EON's extensive library.
- Visualize hydraulic systems, dams, and water distribution networks in a detailed 3-D environment.
- Gain hands-on experience with hydraulic components and infrastructure.

Annotations for the 3-D Model:

- Facilitate your learning with automatically generated annotations for 3-D models.
- Understand the functioning of hydraulic systems with enhanced visual context.
- Optionally, contribute to your knowledge by manually adding annotations for deeper insight.

Automated Assessment Creation:

- Assess your comprehension with diverse tools, including dropdown quizzes, locate quizzes, and identify quizzes.
- Evaluate your mastery of hydraulic engineering principles.
- Prepare for a career in hydraulic engineering and water resources management with tailored assessments.

AI-Generated Universal Skill Simulator (3D Assessment):

- Hone your skills in the top five standard hydraulic operation procedures.
- Engage in 3-D simulated scenarios guided by an AI avatar to practice critical hydraulic processes.
- Receive immediate feedback on your performance to refine your skills.

Interactive Simulation Scenarios (add-on module):

- Apply your hydraulic engineering knowledge to real-world scenarios.
- Create custom simulations with Eon Interact to address hydraulic challenges.
- Develop problem-solving skills for complex hydraulic systems and water management.

Incident Simulation (add-on module):

- Respond to hydraulic system incidents and water-related emergencies.
- Simulate crisis management and mitigation strategies in a controlled environment.
- Enhance your readiness for real-world hydraulic challenges.

Faculty of Graphic Arts

Printing and Media Technology

Typography and Page Layout in AR

Dive deep into the world of Typography and Page Layout through augmented reality. With EON AI Assistant, students will experience typography like never before, transforming static text into an interactive and immersive AR experience.

Knowledge Portal with Floating Annotations:

- Hero image: A detailed page layout showcasing varying fonts and typography styles.
- Floating Portals:
    - Images of famous typographic designs.
    - Text explaining the history and significance of various fonts.
    - Videos of experts discussing page layout techniques.
    - AI Avatar explaining intricacies of good page layout and typography practices.

3-D Model Integration:

- Featured Model: A 3-D rotating page layout allowing users to understand spacing and font design intricacies.
- Placeholder: Images of typographic designs in case a 3D model isn't available.
- Editing option to customize typography styles in real-time.

Annotations for the 3-D Model:

- Floating annotations explaining different typography terms, like kerning, leading, and tracking.
- IntelliScan feature highlighting famous typographic designs and their significance.

Assessment Creation:

- Quizzes on different fonts, their usage, and their significance.
- Identify quiz where students point out various typography terms on a page layout.

AI Generated Universal Skill Simulator:

- Interactive exercises where students can adjust typography on a page and receive real-time feedback from the AI.

Interactive Simulation Scenarios:

- Real-life scenarios showcasing the importance of typography and layout in advertising, branding, and print.

Incident Simulation:

- Incidents where poor typography choices led to branding mishaps, with the AI explaining how they could have been avoided.

Color Theory and Graphic Design

Unearth the vibrancy of color theory and its pivotal role in graphic design through AR. EON AI Assistant brings colors to life, providing an immersive learning experience.

Knowledge Portal with Floating Annotations:

- Hero image: A color wheel showcasing primary, secondary, and tertiary colors.
- Floating Portals:
  - Images of famous graphic designs and their color palettes.
  - Text on the psychological impacts of colors in design.
  - Videos of designers explaining color choices.
  - AI Avatar diving deep into color harmonies and contrasts.

3-D Model Integration:

- Featured Model: A 3-D color wheel allowing users to interact and understand color relationships.
- Placeholder: Infographics on color theory if a 3D model isn't available.

Annotations for the 3-D Model:

- Annotations on color harmonies, such as complementary, analogous, and triadic colors.
- IntelliScan spotlight on iconic graphic designs and their color schemes.

Assessment Creation:

- Quizzes on color relationships and their psychological effects.

- Identify quiz pinpointing different color harmonies on a design.

AI Generated Universal Skill Simulator:

- Simulations where students can create their color palettes and receive AI feedback.

Interactive Simulation Scenarios:

- Real-life scenarios focusing on branding and how color choices impact consumer perception.

Incident Simulation:

- Real-world branding mistakes due to poor color choices, with corrective feedback from the AI.

Multimedia Design and Animation in VR

Step into the captivating realm of multimedia design and animation through virtual reality. EON AI Assistant transforms abstract animation concepts into tangible VR experiences.

Knowledge Portal with Floating Annotations:

- Hero image: A snapshot from a famous animation film.
- Floating Portals:
    - Images from various animation styles and eras.
    - Text on the evolution of multimedia design.
    - Videos of animators explaining their creative process.
    - AI Avatar providing a walkthrough of animation principles.

3-D Model Integration:

- Featured Model: A 3-D animated character showcasing different animation movements.
- Placeholder: Storyboards of famous animations when a 3D model isn't available.

Annotations for the 3-D Model:

- Detailed notes on animation principles like squash and stretch, anticipation, and follow-through.

- IntelliScan insights into famous animated sequences and their creation.

Assessment Creation:

- Quizzes on different animation styles and their significance.
- Identify quiz highlighting key moments in animation history.

AI Generated Universal Skill Simulator:

- Animation exercises where students can animate a character and receive AI feedback.

Interactive Simulation Scenarios:

- Real-life scenarios exploring the creation of iconic animated films and sequences.

Incident Simulation:

- Animation blunders and their corrective measures, guided by the AI.

Printing Technologies and Machine Operation

Experience an innovative approach to learning printing technologies and machine operation through EON AI Assistant. This course leverages artificial intelligence and augmented reality to provide an immersive educational experience. Dive into the world of printing, understanding machines, processes, and hands-on training in an augmented reality environment.

Knowledge Portal with Floating Annotations:

- Delve into the world of printing with a hero image introducing the course.
- Explore 10 floating Knowledge Portals, each filled with rich content, including:
    - Images of various printing machines.
    - Text explanations of printing processes.
    - Engaging videos that illustrate machine operation.
    - An AI Avatar that guides you through machine components and functions.

3-D Model Integration:

- Access a library of 3-D models to visualize printing machines and their components.

- In case a model isn't available, placeholder images will provide context.
- Modify and customize models to suit your learning needs (available in Q4).
- Import your personal CAD models for a deeper understanding (additional fee).
- Look forward to a text-to-3D conversion tool upgrade in early 2024 (additional fee).

Annotations for the 3-D Model:

- Benefit from automatically generated annotations that explain machine parts and processes.
- In the near future (Q1 2024), enjoy image recognition-based annotations with IntelliScan.
- Take control and manually add annotations for a personalized learning experience (additional cost).

Assessment Creation Automatic:

- Assess your knowledge with various tools, including:
    - Standard dropdown menu quizzes on machine functions.
    - Locate quizzes for identifying machine components.
    - Identify quizzes to test your understanding of key parts.
    - Engage in Jeopardy-style quizzes for an exciting challenge.
- Stay tuned for upcoming quiz formats in 2024:
    - Drag and drop.
    - Matching.
    - Ordering.
    - True/false.
    - Short answer.

AI Generated Universal Skill Simulator (3D assessment):

- Hone your machine operation skills with a focus on standard procedures.
- Follow auto-generated procedures aligned with academic curricula.
- Watch procedures come to life through 3-D animations guided by an AI avatar.
- Demonstrate your skills, and let the AI evaluate your performance.
- In cases where a 3-D model is unavailable, rely on 2D hero images as substitutes.

Interactive Simulation Scenarios (add-on module):

- Encounter real-world printing scenarios with AI-identified challenges.
- Engage with 3-D models and Knowledge Portals for in-depth exploration.
- Use Eon Interact to create your simulations, though this feature comes at an additional fee.

Incident Simulation (add-on module):

- An AI avatar presents printing-related incidents through the Knowledge Portal (manual process).
- Test your problem-solving skills as you're assessed on these incidents.
- Create your incident simulations using Eon Interact, though this feature also comes at an additional fee.

Photography and Image Processing in AR

Embark on a journey of creative exploration in the realm of photography and image processing using EON AI Assistant. This course harnesses the power of artificial intelligence and augmented reality to transform your photography skills. Learn to capture, edit, and manipulate images in immersive augmented reality environments.

Knowledge Portal with Floating Annotations:

- Begin your photography adventure with an inspiring hero image.
- Discover 10 floating Knowledge Portals enriched with content like:
    - Stunning images to spark creativity.
    - In-depth text explanations on photography techniques.
    - Engaging videos showcasing image processing tips.
    - An AI Avatar offering guidance on photography and editing.

3-D Model Integration:

- Visualize cameras, lenses, and photography equipment with 3-D models.
- If a model isn't available, image placeholders provide context.
- Customize models to suit your preferences (available in Q4).
- Import personal 3-D models to deepen your understanding (additional fee).
- Anticipate the text-to-3D conversion tool upgrade in early 2024 (additional fee).

Annotations for the 3-D Model:

- Automatically generated annotations explain camera components and image processing steps.
- Expect image recognition-based annotations with IntelliScan in Q1 2024.
- Optionally add your annotations for personalized learning (additional cost).

Assessment Creation Automatic:

- Assess your photography and image processing knowledge with tools like:

    - Standard dropdown menu quizzes on photography techniques.
    - Locate quizzes to identify camera components.
    - Identify quizzes to test your knowledge of image editing.
    - Challenge yourself with Jeopardy-style quizzes.
- Upcoming quiz formats in 2024 include:
    - Drag and drop.
    - Matching.
    - Ordering.
    - True/false.
    - Short answer.

AI Generated Universal Skill Simulator (3D assessment):

- Master photography and image processing techniques, focusing on standard procedures.
- Follow auto-generated procedures aligned with academic curricula.
- Witness procedures in 3-D animations guided by an AI avatar.
- Demonstrate your skills, receiving assessments from the AI.
- In cases without 3-D models, rely on 2D hero images for simulation.

Interactive Simulation Scenarios (add-on module):

- Engage in real-world photography scenarios identified by AI.
- Explore scenarios with 3-D models and Knowledge Portals.
- Create your simulations using Eon Interact (additional fee).

Incident Simulation (add-on module):

- Experience photography-related incidents presented by the AI via the Knowledge Portal (manual process).
- Test your problem-solving skills while being assessed on these incidents.
- Create your incident simulations using Eon Interact, available for an additional fee.

Faculty of Chemical Engineering and Technology

Chemistry and Process Engineering

Organic Chemistry Visualization

Delve deep into the intricacies of organic chemistry using state-of-the-art AR and VR technologies. Experience molecules, reactions, and organic structures in a way you've never before. Powered by EON AI Assistant, this course offers you an immersive experience to understand the foundations and advanced concepts of organic chemistry.

Knowledge Portal with Floating Annotations:

- Hero Image: A rotating molecule showcasing bonds and atoms.
- 10 Floating Knowledge Portals featuring:
    - **Images**: Detailed diagrams of organic structures, functional groups, and reaction pathways.
    - **Text**: Comprehensive notes on reaction mechanisms, nomenclature, and more.
    - **Videos**: Animated organic reactions and mechanisms.
    - **AI Avatar**: Walkthrough of complex organic reactions, breaking down each step for clarity.

3-D Model Integration:

- Interact with 3D models of organic molecules, visualizing stereoisomerism, conformations, and resonance structures.
- Model sourced from EON's vast library or image placeholders for specific organic molecules.
- Option to view molecular orbital theories in 3D.

Annotations for the 3-D Model:

- Auto-generated floating annotations highlighting functional groups, electron movement, and more.
- IntelliScan feature (available Q1 2024) for in-depth image recognition-based annotations on organic structures.
- Manual addition of annotations for specific study areas, e.g., pericyclic reactions or retrosynthesis.

Assessment Creation:

- Quizzes on nomenclature, reaction mechanisms, synthesis, and retrosynthesis.

- Specialized quizzes for understanding stereochemistry, electrophilic and nucleophilic attacks, and more.
- Future quizzes (2024) on topics like molecular orbital theory, physical properties prediction, and more.

AI Generated Universal Skill Simulator:

- Simulate laboratory procedures like distillation, crystallization, or chromatography in 3D animations.
- Watch AI avatar-guided demonstrations of organic synthesis steps, purification techniques, and more.
- If specific setups aren't available in 3D, they'll be visualized using 2D images.

Interactive Simulation Scenarios:

- AI-identified real-life scenarios, e.g., drug synthesis or green chemistry procedures.
- Users can manually create their specific organic reaction simulations.

Incident Simulation:

- Experience incidents in organic synthesis, understanding pitfalls and hazards.
- AI avatar-guided exploration of incidents like side reactions, unexpected products, and more.

Chemical Process Simulations

Delve into the intricate world of chemical processes, made interactive and engaging with EON AI Assistant's state-of-the-art AR and VR technologies. This course allows learners to witness chemical reactions and processes in a detailed 3D environment.

Features:

- Knowledge Portal with Floating Annotations:
  - Hero image showcasing a prominent chemical reaction.
  - 10 interactive knowledge portals elucidating different chemical reactions with images, text, videos, and an AI avatar guiding learners through every step.
- 3-D Model Integration:
  - Access to EON's extensive library featuring molecular structures and chemical apparatus.
  - Customizable models, allowing users to visualize specific chemical reactions.

    - An illustrative example of a 3-D distillation column for a deeper understanding of distillation processes.
- Annotations for the 3-D Model:
    - Detailed annotations explaining various chemical apparatus parts.
    - IntelliScan feature offering deeper insights into molecular structures.
- Assessment Creation:
    - Quizzes focused on chemical processes and reactions.
    - Interactive quizzes like identifying chemical apparatus and predicting chemical reactions.
- AI Generated Universal Skill Simulator:
    - Simulate chemical processes, guided by an AI avatar.
    - Engage in virtual chemical experiments and understand reaction mechanisms.
- Interactive Simulation Scenarios:
    - AI-curated real-life scenarios demonstrating practical applications of chemical processes.
    - Custom simulations enabling learners to manipulate variables and observe outcomes.
- Incident Simulation:
    - Understand potential hazards and incidents in a chemical lab.
    - AI-led incident demonstrations teaching safety protocols and emergency responses.

Materials Chemistry and Polymers in AR

Explore the dynamic field of materials chemistry, focusing on polymers, using advanced AR techniques. Witness the creation and manipulation of polymers and delve into their applications.

Features:

- Knowledge Portal with Floating Annotations:
    - Hero image depicting polymer chains and their intricate structures.
    - 10 immersive knowledge portals covering various aspects of materials chemistry with dedicated images, text, videos, and an AI avatar detailing every concept.
- 3-D Model Integration:
    - Access to a vast library of polymer structures and materials chemistry apparatus.
    - Illustrative example showcasing the 3-D model of a polymerization reactor.
- Annotations for the 3-D Model:

    - Annotations highlighting specific points of interest in polymer chains and material structures.
    - IntelliScan feature to delve deeper into the molecular world of materials.
- Assessment Creation:
    - Quizzes testing knowledge on polymerization processes and material properties.
    - Interactive formats including matching polymer types and their uses.
- AI Generated Universal Skill Simulator:
    - Simulate the polymerization process and witness the creation of polymers from monomers.
    - AI-guided exploration of material properties and their modifications.
- Interactive Simulation Scenarios:
    - AI-generated scenarios depicting real-life applications of polymers.
    - Customizable simulations allowing users to design and test new materials.
- Incident Simulation:
    - Learn about potential risks associated with materials chemistry.
    - AI-led demonstrations on handling and disposing of polymers safely.

Environmental Chemistry and Pollutants

Immerse yourself in the world of Environmental Chemistry and Pollutants with EON AI Assistant's cutting-edge technology. This course leverages augmented and virtual reality to provide an unparalleled learning experience. From understanding the chemical composition of pollutants to exploring environmental solutions, you'll engage with course materials in a way like never before.

Knowledge Portal with Floating Annotations:

- Dive into the course with a captivating hero image that sets the tone.
- Explore 10 floating Knowledge Portals enriched with images, text, videos, and AI Avatars that explain complex chemical processes.
- Visualize the impact of pollutants on the environment through immersive multimedia content.

3-D Model Integration:

- Study environmental systems using 3-D models, including molecular structures and ecosystem simulations.
- Edit and customize models to match specific environmental scenarios.
- Optionally import your own CAD models for a personalized learning experience.

Annotations for the 3-D Model:

- Enhance your understanding with auto-generated annotations for complex chemical structures and processes.
- Anticipate future IntelliScan technology for image-based annotations.
- Add your own annotations for a deeper dive into specific topics.

Assessment Creation Automatic:

- Assess your knowledge with various quizzes, including locating pollutants, identifying chemical structures, and more.
- Stay engaged with a range of quiz formats.
- Additional quiz types, such as drag-and-drop and true/false, coming soon in 2024.

AI Generated Universal Skill Simulator (3D Assessment):

- Master essential environmental procedures with AI-guided simulations.
- Demonstrate your knowledge of environmental chemistry through interactive 3-D animations.
- Receive instant feedback and assessment on your performance.

Interactive Simulation Scenarios (Add-on Module):

- Apply your knowledge to real-life scenarios involving environmental issues.
- Create your own environmental simulations using Eon Interact (additional fee).
- Immerse yourself in hands-on problem-solving.

Incident Simulation (Add-on Module):

- Simulate environmental incidents and their impact on ecosystems.
- Explore incident scenarios through AI-guided presentations (additional fee).
- Test your ability to respond to environmental challenges in a controlled, virtual environment.

Biochemical Engineering and Bioprocesses

Embark on a transformative journey into the realm of Biochemical Engineering and Bioprocesses with EON AI Assistant. Harness the power of augmented and virtual reality to grasp the intricacies of biochemistry and biotechnological processes. This course will equip you with the skills and knowledge needed for success in the biotech industry.

Knowledge Portal with Floating Annotations:

- Begin your learning adventure with a captivating hero image that sets the stage.
- Access 10 floating Knowledge Portals enriched with multimedia content, including images, text, videos, and AI-guided explanations.
- Visualize complex biochemical reactions and processes with immersive experiences.

3-D Model Integration:

- Study molecular structures, bioreactors, and bioprocesses with 3-D models.
- Customize and edit models to align with your specific learning goals.
- Optionally import your CAD models or scan real-world bioprocess equipment (additional fee).

Annotations for the 3-D Model:

- Enhance your understanding with auto-generated annotations for complex biotechnological equipment.
- Look forward to IntelliScan technology for image-based annotations in the near future.
- Add your own annotations to delve deeper into specialized topics.

Assessment Creation Automatic:

- Assess your knowledge through various quizzes, including locating biochemical structures and identifying bioprocess components.
- Stay engaged with diverse quiz formats.
- Anticipate new quiz types, such as drag-and-drop and matching quizzes, arriving in 2024.

AI Generated Universal Skill Simulator (3D Assessment):

- Master critical bioprocessing procedures through AI-guided 3-D simulations.
- Demonstrate your ability to handle biotechnological tasks with interactive animations.
- Receive instant feedback and assessment of your performance.

Interactive Simulation Scenarios (Add-on Module):

- Apply your knowledge to real-life bioprocess scenarios.
- Create your own bioprocess simulations using Eon Interact (additional fee).
- Engage in hands-on problem-solving and decision-making in a virtual environment.

Incident Simulation (Add-on Module):

- Simulate biochemical incidents and evaluate their impact on bioprocesses.
- Explore incident scenarios through AI-guided presentations (additional fee).
- Test your ability to respond to bioprocessing challenges in a controlled, virtual setting.

Faculty of Agriculture

Plant and Animal Sciences

Crop Science and Plant Breeding in VR

Dive deep into the realm of crop science and plant breeding using Virtual Reality. Interact with 3D models of crops, learn about genetics, breeding techniques, and explore the latest advancements in the field, all under the guidance of an AI avatar.

Features:

Knowledge Portal with Floating Annotations:

- Display a hero image of various crops.
- Explore 10 floating knowledge portals focusing on topics like crop genetics, breeding methods, disease resistance, and more.
- Witness an AI Avatar explaining complex topics like gene editing, hybrid creation, and more.

3-D Model Integration:

- Interact with 3D models of various crops, showcasing their growth stages.
- If specific crop models aren't available, high-resolution images will be provided.
- See 3D representations of plant cells, genetics, and breeding techniques.

Annotations for the 3-D Model:

- Annotations explaining crop parts, genetic makeup, and breeding methods.
- Use IntelliScan to identify and learn about specific crop species and their features.

Assessment Creation:

- Participate in quizzes on crop genetics, breeding techniques, and crop management.
- Test your knowledge with locate, identify, and Jeopardy-style quizzes on crop science.

AI Generated Universal Skill Simulator:

- Engage with simulations on crop breeding techniques, hybrid creation, and more.
- Watch AI-generated animations on gene editing, cross-pollination, and genetic modification.

Interactive Simulation Scenarios:

- Participate in real-life scenarios like handling crop diseases, breeding for desired traits, and more.
- Create your simulations on crop management using Eon Interact.

Incident Simulation:

- Deal with incidents like pest attacks, genetic mutations, and more.
- Learn the best practices to handle such incidents effectively.

Livestock Management and Veterinary Science

Step into the world of livestock management and veterinary science with Virtual Reality. Learn about animal health, breeding, nutrition, and dive deep into veterinary procedures, all with the guidance of an interactive AI avatar.

Features:

Knowledge Portal with Floating Annotations:

- Hero image of diverse livestock.
- Explore 10 knowledge portals on topics like animal nutrition, breeding, disease management, and veterinary procedures.
- AI Avatar delves into topics like animal genetics, preventive care, and more.

3-D Model Integration:

- Engage with 3D models of various livestock animals and understand their anatomy.
- High-resolution images of rare breeds if 3D models aren't available.
- 3D visuals of veterinary procedures, tools, and equipment.

Annotations for the 3-D Model:

- Annotations explaining animal anatomy, breeding techniques, and health markers.
- IntelliScan provides insights into specific livestock breeds, their health needs, and more.

Assessment Creation:

- Engage in quizzes on animal health, nutrition, and veterinary practices.
- Engage in identify, locate, and Jeopardy-style quizzes about livestock diseases, treatments, and management.

AI Generated Universal Skill Simulator:

- Interactive simulations on livestock feeding, breeding, and health check procedures.
- AI avatar-guided animations on performing veterinary surgeries, vaccinations, and more.

Interactive Simulation Scenarios:

- Participate in real-life scenarios: animal birth, disease outbreaks, and nutrition management.
- Create personalized simulations on livestock management using Eon Interact.

Incident Simulation:

- Manage incidents like sudden livestock diseases, breeding complications, and more.
- Understand and practice best-response methods to these incidents.

Soil Science and Fertility in AR

Discover the intricacies of soil science and fertility in Augmented Reality. Learn about soil types, nutrient management, and fertility techniques, all presented in an interactive and immersive environment.

Features:

Knowledge Portal with Floating Annotations:

- Hero image of varying soil profiles.

- Explore 10 knowledge portals on topics like soil types, nutrient cycles, erosion, and conservation.
- AI Avatar provides insights into soil pH, fertility methods, and nutrient absorption.

3-D Model Integration:

- Interact with 3D soil profiles, understanding different layers and compositions.
- Access high-resolution images of microorganisms and soil particles if 3D models aren't available.
- Detailed 3D representation of nutrient cycles and soil structures.

Annotations for the 3-D Model:

- Annotations showcasing soil layer information, mineral content, and microbial activity.
- IntelliScan identifies different soil types, their health, and nutrient content.

Assessment Creation:

- Engage in quizzes about soil types, conservation techniques, and fertility methods.
- Test your knowledge with identify, locate, and Jeopardy-style quizzes about soil health and management.

AI Generated Universal Skill Simulator:

- Dive into simulations on soil tilling, fertilization, and pH balancing.
- AI guides through animations on composting, microbial activities, and nutrient replenishment.

Interactive Simulation Scenarios:

- Tackle real-life scenarios: soil erosion control, organic farming, and crop-soil compatibility.
- Customize simulations on soil management techniques using Eon Interact.

Incident Simulation:

- Respond to incidents like soil contamination, nutrient depletion, and more.
- Practice the best remediation techniques for various soil-related issues.

This innovative course leverages the cutting-edge capabilities of EON AI Assistant to provide an immersive learning experience in the field of Agribusiness and Farm Management. Through the power of artificial intelligence, augmented and virtual reality, students will gain a comprehensive understanding of key concepts and practical skills in agribusiness and food science. Here's a detailed breakdown of the course features:

Knowledge Portal with Floating Annotations:

- Explore agribusiness and food science with captivating hero images, videos, text, and interactive content.
- Access 10 floating Knowledge Portals that provide in-depth insights into various aspects of agribusiness and food processing.
- Engage with an AI Avatar that explains critical farm management procedures, crop science, and food processing techniques in a visually stimulating manner.

3-D Model Integration:

- Dive into the world of agriculture with 3-D models of farm equipment, crops, and processing machinery.
- When specific models are unavailable, high-quality images will be used as placeholders.
- For example, examine a 3-D model of a modern combine harvester for an immersive understanding of farm machinery.
- Gain the option to import your personal CAD models or scan real 3-D farm objects, enhancing your learning experience. (Additional fee may apply)
- Anticipate the upcoming text-to-3D conversion tool upgrade in the first half of 2024. (Additional fee may apply)

Annotations for the 3-D Model:

- Automatically generated annotations for 3-D models, ensuring a thorough understanding of farm equipment and food processing machinery.
- Upcoming IntelliScan feature (Q1 2024) for image recognition-based annotations at no additional cost.
- Customize your learning by manually adding annotations to enhance your knowledge. (Additional cost may apply)

Assessment Creation Automatic:

- Assess your knowledge with a variety of quizzes, including standard dropdown menu quizzes, locate quizzes, identify quizzes, and jeopardy-style quizzes.

- Stay tuned for future quiz formats in 2024, including drag and drop, matching, ordering, true/false, and short answer quizzes.

AI Generated Universal Skill Simulator (3D assessment):

- Develop practical skills in farm management with a focus on the top five standard operational procedures.
- Experience auto-generated procedures aligned with academic curriculum transformed into 3-D animations guided by an AI avatar.
- Demonstrate your expertise in crop cultivation, equipment operation, and food processing, with AI providing instant feedback and assessment.

Interactive Simulation Scenarios (add-on module):

- Engage in real-life agribusiness scenarios with the help of AI-generated 3-D models and Knowledge Portals.
- Take charge of your learning by creating your own simulations using EON Interact (additional fee applies).

Incident Simulation (add-on module):

- Understand crisis management in the agribusiness sector as AI avatars present incidents using the Knowledge Portal (manual process).
- Test your crisis management skills and get assessed on your responses.
- Create your own incident simulations with EON Interact (additional fee applies).

Food Science and Processing Technologies

Discover the fascinating realm of Food Science and Processing Technologies through an immersive learning experience powered by EON AI Assistant. Dive deep into the science behind food production, processing, and preservation. This course offers an in-depth exploration of the following features:

Knowledge Portal with Floating Annotations:

- Uncover the secrets of food science with captivating visuals, videos, text, and interactive elements.
- Access 10 floating Knowledge Portals that unravel the intricacies of food chemistry, processing techniques, and quality control.
- Interact with an AI Avatar that explains complex food science principles, guiding you through experiments and processes.

3-D Model Integration:

- Explore the machinery and technology used in food processing with 3-D models of processing equipment and food products.
- In cases where specific models are unavailable, high-quality images will be used as placeholders.
- For instance, examine a 3-D model of an industrial food processor to understand its workings better.
- Import your personal CAD models or scan 3-D objects related to food processing for an enhanced learning experience. (Additional fee may apply)
- Anticipate the text-to-3D conversion tool upgrade in the first half of 2024, offering even more interactive learning options. (Additional fee may apply)

Annotations for the 3-D Model:

- Ensure a comprehensive understanding of food processing equipment with automatically generated annotations.
- Upcoming IntelliScan feature (Q1 2024) will provide image recognition-based annotations at no extra cost.
- Customize your learning experience by manually adding annotations for deeper insights. (Additional cost may apply)

Assessment Creation Automatic:

- Assess your grasp of food science and processing through various quiz formats, including standard dropdown menu quizzes, locate quizzes, identify quizzes, and jeopardy-style quizzes.
- Look forward to future quiz types in 2024, such as drag and drop, matching, ordering, true/false, and short answer quizzes.

AI Generated Universal Skill Simulator (3D assessment):

- Hone your practical skills in food processing with a focus on the top five standard operational procedures.
- Experience auto-generated procedures tailored to academic curriculum, transforming into 3-D animations guided by an AI avatar.
- Demonstrate your expertise in food quality control, preservation, and processing, with AI providing instant feedback and assessment.

Interactive Simulation Scenarios (add-on module):

- Engage in real-world food processing scenarios with AI-generated 3-D models and Knowledge Portals.

- Take control of your learning journey by creating customized simulations using EON Interact (additional fee applies).

Incident Simulation (add-on module):

- Navigate food safety incidents with AI avatars presenting incidents through the Knowledge Portal (manual process).
- Evaluate your response to food safety challenges and receive assessments.
- Develop your own incident simulations using EON Interact (additional fee applies).

Faculty of Veterinary Medicine

Veterinary Practices and Animal Health

Veterinary Surgical Techniques in VR

Dive deep into the intricate world of veterinary surgical techniques with the EON AI Assistant. This comprehensive VR experience takes learners on a journey through the world of veterinary surgery, offering an immersive and interactive understanding of complex surgical procedures.

Knowledge Portal with Floating Annotations:

- **Hero Image**: A captivating visual of a surgery room with veterinarians in action.
- **Floating Knowledge Portals**: 10 portals featuring:
    - High-resolution images of surgical equipment and procedures.
    - Detailed text descriptions of each technique.
    - Step-by-step surgical procedure videos.
    - AI Avatar explanation of the surgical tools, their usage, and the significance of each step in a procedure.

3-D Model Integration:

- 3-D models of commonly used surgical tools sourced from EON's library.
- Illustrative example: A detailed 3-D model of surgical scissors and its mechanism.
- Option to view a placeholder image if a specific model is not available.

Annotations for the 3-D Model:

- Highlighted parts of the surgical tools with floating annotations explaining their function.
- IntelliScan feature (from Q1 2024) to scan real tools and identify their parts.
- Manual addition of annotations for more obscure or specialized tools (additional cost).

Assessment Creation:

- Quizzes on identifying surgical tools, their functions, and understanding surgical techniques.
- Future quizzes testing learners on procedure sequence, tool identification, and surgical decision-making.

AI Generated Universal Skill Simulator:

- Simulate surgical procedures, guided by an AI avatar.
- Demonstrations of standard surgical techniques.
- Assessment of the learner's ability to mimic or recall surgical steps accurately.

Interactive Simulation Scenarios:

- Real-life surgical scenarios in VR.
- Opportunities to manually create custom surgical situations using Eon Interact (additional fee).

Incident Simulation:

- Unexpected surgical complications presented by the AI avatar.
- Assessments based on learners' decision-making and problem-solving skills in these scenarios.

Animal Anatomy and Physiology

Dive into the intricate world of animal anatomy and physiology through an immersive learning experience powered by the EON AI Assistant. Interact with detailed 3D models, engage with floating annotations, and get guided insights from an AI avatar to master the complexities of animal structures and their functions.

Course Features:

Knowledge Portal with Floating Annotations:

- Hero Image: Stunning visuals of diverse animals in their natural habitats.

- **Floating Knowledge Portals**: 10 distinct portals showcasing different animal systems like the cardiovascular, respiratory, digestive, and more.
- **AI Avatar**: Your digital guide elaborating on each system's intricacies, supplemented with images, text, videos, and interactive simulations.

3-D Model Integration:

- **3-D Models**: Explore animal anatomy using detailed 3D models, from mammals to reptiles.
- **Illustrative Example**: A comprehensive 3-D model of a canine showcasing skeletal, muscular, and internal organ systems.
- **Customization**: Import your own 3D scans of specific animals for a tailored learning experience.

Annotations for the 3-D Model:

- **Auto-generated Annotations**: Dynamic labels highlighting key features of animal anatomy.
- **IntelliScan**: Enhanced image recognition-based annotations to identify specific anatomical structures.

Assessment Creation:

- **Standard Quizzes**: Test your understanding with a variety of quizzes focusing on specific systems or general anatomy knowledge.
- **Future Quizzes**: Engage in drag-and-drop quizzes to match organs with their functions or short-answer quizzes to explain physiological processes.

AI Generated Universal Skill Simulator:

- **Simulations**: Understand physiological processes such as blood circulation or digestion through guided 3D animations.
- **Performance Assessment**: Demonstrate your understanding of these processes and receive real-time feedback.

Interactive Simulation Scenarios:

- **Real-life Scenarios**: Engage in scenarios like animal surgeries or habitat-related physiological adjustments.
- **Simulation Creation**: Customize simulations to focus on specific areas of interest.

Incident Simulation:

- **Incidents**: Explore how different external factors like injuries or habitat changes affect animal physiology.
- **Assessment**: Gauge your understanding of the impact of various incidents on animal health.

Wildlife Medicine and Conservation

Harness the power of EON AI Assistant to delve into the fascinating domain of wildlife medicine and conservation. Learn about the challenges faced by wildlife, the medical interventions they require, and the conservation efforts in place through interactive simulations and guided lessons.

Course Features:

Knowledge Portal with Floating Annotations:
- Hero Image: Captivating images of wildlife in rescue centers and natural habitats.
- Floating Knowledge Portals: 10 dedicated portals detailing medical procedures, rehabilitation processes, and conservation strategies.
- AI Avatar: An insightful AI guide discussing the nuances of wildlife medicine and the importance of conservation.

3-D Model Integration:
- 3-D Models: Detailed models of wildlife habitats and the challenges they face.
- Illustrative Example: A 3-D visualization of a wildlife rescue center, showcasing various facilities and rehabilitation areas.
- Customization: Option to integrate models of specific conservation sites or endangered species habitats.

Annotations for the 3-D Model:
- Auto-generated Annotations: Dynamic labels pinpointing key aspects of wildlife medicine and conservation.
- IntelliScan: Advanced recognition tools identifying specific species or threats they face.

Assessment Creation:
- Standard Quizzes: Assess your knowledge on medical interventions, species-specific needs, and conservation challenges.
- Future Quizzes: Engage in matching quizzes linking species to their habitats or true/false quizzes about conservation facts.

AI Generated Universal Skill Simulator:
- Simulations: Understand the medical care process for injured wildlife or the steps in setting up a conservation site.
- Performance Assessment: Showcase your skills in wildlife care and receive feedback.

Interactive Simulation Scenarios:
- Real-life Scenarios: Immerse yourself in conservation efforts, such as reforestation projects or anti-poaching initiatives.
- Simulation Creation: Design your own scenarios focusing on specific wildlife medical or conservation challenges.

Incident Simulation:
- Incidents: Understand the impact of incidents like oil spills or deforestation on wildlife.
- Assessment: Evaluate your comprehension of the challenges faced by wildlife and the solutions in place.

Farm Animal Health and Production

Explore the fascinating world of Farm Animal Health and Production through the innovative EON AI Assistant. This cutting-edge course leverages artificial intelligence, augmented and virtual reality to provide an immersive learning experience. Dive into the essential concepts of farm animal care, breeding, and production while utilizing state-of-the-art technology.

Knowledge Portal with Floating Annotations:

- Immerse yourself in the world of farm animal health and production with visually-rich knowledge portals.
- Access 10 floating Knowledge Portals featuring images, text, videos, and an AI Avatar that explains critical concepts.
- Learn about animal anatomy, breeding techniques, and nutrition with interactive content.

3-D Model Integration:

- Explore 3-D models of various farm animals, from cattle to poultry, sourced from EON's extensive library.
- In case of missing models, high-quality images serve as placeholders.
- Gain a deep understanding of animal physiology and behavior through immersive 3-D models.
- Personalize your learning by importing CAD models or scanning 3-D objects (additional fee applies).

Annotations for the 3-D Model:

- Comprehensive annotations accompany 3-D models to enhance your learning experience.
- Automatically generated annotations provide real-time insights into animal biology.
- IntelliScan feature (Q1 2024) offers image recognition-based annotations.
- Customize your learning by manually adding annotations (additional cost).

Assessment Creation Automatic:

- Test your knowledge with various assessment tools tailored to 3-D models:
    - Standard drop-down menu quizzes.
    - Identify quizzes on animal breeds.
    - Locate quizzes for anatomical features.
    - Jeopardy-style quizzes for fun and engaging learning.

- Future quizzes (2024) include drag and drop, matching, ordering, true/false, and short answer formats.

AI Generated Universal Skill Simulator (3D assessment):

- Master the top five standard farm animal care procedures.
- Engage with auto-generated procedures aligned with industry standards.
- Witness these procedures come to life as 3-D animations guided by an AI avatar.
- Demonstrate your skills, with AI evaluating your performance.
- Experience critical procedures like animal vaccination and health checks.

Interactive Simulation Scenarios (add-on module):

- Immerse yourself in real-life farm scenarios using 3-D models and Knowledge Portals.
- Create custom simulations using Eon Interact (additional fee).
- Gain hands-on experience in farm management and problem-solving.

Incident Simulation (add-on module):

- Encounter farm incidents presented by an AI avatar using Knowledge Portals (manual process).
- Assess your ability to respond to critical situations.
- Create custom incident simulations using Eon Interact (additional fee).

Aquatic Animal Medicine and Fish Health

Dive into the world of Aquatic Animal Medicine and Fish Health with the EON AI Assistant. This groundbreaking course leverages the power of artificial intelligence, augmented reality, and virtual reality to immerse you in the care and well-being of aquatic animals. Explore the intricacies of aquatic biology, disease prevention, and health management.

Knowledge Portal with Floating Annotations:

- Explore the underwater world of aquatic animal medicine with visually-rich knowledge portals.
- Access 10 floating Knowledge Portals featuring images, text, videos, and an AI Avatar that explains essential concepts.
- Learn about diverse aquatic species, their habitats, and health management practices through interactive content.

3-D Model Integration:

- Dive into the depths of aquatic life with 3-D models of fish and aquatic organisms from EON's extensive library.
- In the absence of specific models, high-quality images serve as placeholders.
- Gain a deep understanding of aquatic animal anatomy and behavior through immersive 3-D models.
- Customize your learning by importing CAD models or scanning 3-D objects (additional fee applies).

Annotations for the 3-D Model:

- Comprehensive annotations accompany 3-D models to enhance your understanding of aquatic biology.
- Automatically generated annotations provide real-time insights into aquatic health and diseases.
- The IntelliScan feature (Q1 2024) offers image recognition-based annotations.
- Customize your learning by manually adding annotations (additional cost).

Assessment Creation Automatic:

- Test your knowledge with various assessment tools tailored to 3-D models:
    - Standard drop-down menu quizzes.
    - Identify quizzes on aquatic species.
    - Locate quizzes for anatomical features.
    - Jeopardy-style quizzes for interactive learning.
- Future quizzes (2024) include drag and drop, matching, ordering, true/false, and short answer formats.

AI Generated Universal Skill Simulator (3D assessment):

- Master essential aquatic health procedures through AI-guided simulations.
- Engage with auto-generated procedures aligned with industry standards.
- Witness these procedures come to life as 3-D animations guided by an AI avatar.
- Demonstrate your skills, with AI evaluating your performance.
- Experience critical procedures like fish disease diagnosis and water quality management.

Interactive Simulation Scenarios (add-on module):

- Immerse yourself in real-life aquatic scenarios using 3-D models and Knowledge Portals.
- Create custom simulations using Eon Interact (additional fee).

- Gain hands-on experience in aquatic animal health management and problem-solving.

Incident Simulation (add-on module):

- Encounter aquatic incidents presented by an AI avatar using Knowledge Portals (manual process).
- Assess your ability to respond to critical aquatic situations.
- Create custom incident simulations using Eon Interact (additional fee).

Faculty of Kinesiology

Sports and Human Movement

Biomechanics and Movement Analysis in VR

Dive deep into the intricacies of human movement and its underlying biomechanics with the EON AI Assistant. Experience the transformation of traditional text and image-based learning material into an immersive VR environment. Engage with 3D models of the musculoskeletal system, understand force dynamics, and analyze gait patterns, all in an interactive VR setting.

Knowledge Portal with Floating Annotations:

- Hero Image: A dynamic display of human gait analysis.
- Floating Knowledge Portals: Detailed sections on muscle activations, force vectors, joint mechanics, and more. Accompanied by videos, text explanations, and an AI avatar elucidating the concepts of biomechanics.

3-D Model Integration:

- Engage with intricate 3-D models of the human skeletal and muscular system.
- Detailed 3-D models sourced from EON's vast library, showcasing various biomechanical movements.
- Optional: Import and analyze personal 3D scans of specific biomechanical movements.

Annotations for the 3-D Model:

- Interactive annotations detailing each bone, muscle, and joint in the model.

- Coming soon: IntelliScan feature to deep dive into each biomechanical element using image recognition.

Assessment Creation:

- Engage with quizzes on muscle functions, joint movements, and force dynamics.
- Future quizzes will test your grasp on advanced topics like load-bearing, movement efficiency, and more.

AI Generated Universal Skill Simulator:

- Understand standard procedures like gait analysis, force plate readings, and muscle activation sequences.
- Watch these processes transform into 3-D animations, guided by an AI avatar, and assess your knowledge in real-time simulations.

Interactive Simulation Scenarios:

- Witness real-life scenarios of athletes in motion and learn to analyze their biomechanics.
- Create custom biomechanical simulations for in-depth analysis.

Incident Simulation:

- Analyze injury mechanisms and prevention strategies using VR simulations.
- Test your understanding by assessing injury scenarios and devising rehabilitation strategies.

Sports Training and Performance Analysis

Elevate your sports training and analysis capabilities using the EON AI Assistant. Transition from traditional learning approaches to a VR-based understanding of sports dynamics, strategies, and performance metrics. Engage in virtual practice sessions, dissect intricate game plays, and assess athlete performance in a fully interactive environment.

Knowledge Portal with Floating Annotations:

- Hero Image: A vibrant depiction of athletes in action.
- Floating Knowledge Portals: In-depth insights on training regimes, athlete nutrition, performance metrics, and more, enriched with videos and an AI avatar guiding you through the sports world.

3-D Model Integration:

- Interact with dynamic 3-D models of sports arenas, equipment, and athlete movements.
- Explore diverse models sourced from EON's extensive library, representing various sports disciplines.
- Optional: Integrate personalized 3D recordings of actual gameplay for deeper analysis.

Annotations for the 3-D Model:

- Annotations providing insights into game strategies, equipment specifics, and player roles.
- Soon to be introduced: IntelliScan feature for detailed game play and equipment analysis.

Assessment Creation:

- Engage in quizzes on sports rules, strategies, and performance metrics.
- Future quizzes to focus on game tactics, player roles, and sports psychology.

AI Generated Universal Skill Simulator:

- Dive into standard training routines, game plays, and athlete performance assessments.
- Experience these dynamics in 3-D animations, and validate your understanding in real-time sports simulations.

Interactive Simulation Scenarios:

- Visualize real-life sports scenarios and learn to strategize and counteract opponents.
- Design custom training sessions and game plays for enhanced learning.

Incident Simulation:

- Study incidents like fouls, penalties, and injuries in a virtual environment.
- Develop analytical skills to prevent such incidents and improve gameplay.

Physical Therapy and Rehabilitation in AR

Embrace the future of physical therapy and rehabilitation with the EON AI Assistant. Utilize AR to understand musculoskeletal disorders, devise therapeutic interventions, and track rehabilitation progress. Experience hands-on therapy sessions, understand patient anatomy, and design custom rehabilitation plans in an augmented reality setting.

Knowledge Portal with Floating Annotations:

- Hero Image: A holistic view of a physical therapy session.
- Floating Knowledge Portals: Elaborate sections on therapeutic techniques, patient assessments, muscle rehabilitation, and more, complemented by videos and an AI avatar explaining the principles of physical therapy.

3-D Model Integration:

- Engage with 3-D models showcasing various musculoskeletal disorders and therapeutic interventions.
- Source models from EON's vast library, detailing various rehabilitation techniques.
- Optional: Incorporate personal 3D scans of patients for personalized therapy plans.

Annotations for the 3-D Model:

- Interactive annotations detailing muscle groups, injury mechanisms, and therapeutic techniques.
- Upcoming: IntelliScan feature for a deep understanding of musculoskeletal disorders and interventions.

Assessment Creation:

- Engage with quizzes on therapeutic techniques, muscle functions, and rehabilitation protocols.
- Upcoming quizzes on advanced rehabilitation techniques and patient management.

AI Generated Universal Skill Simulator:

- Learn about standard physical therapy routines, assessment techniques, and rehabilitation exercises.
- Visualize these techniques in 3-D animations, guided by an AI avatar, and practice in AR simulations.

Interactive Simulation Scenarios:

- Witness real-life scenarios of patients undergoing therapy and understand the intricacies of their rehabilitation journey.
- Design custom therapeutic sessions for diverse patient needs.

Incident Simulation:

- Analyze incidents leading to musculoskeletal injuries and devise preventive strategies.
- Test your skills by creating rehabilitation plans for simulated injury scenarios.

Exercise Physiology and Nutrition

In this cutting-edge course, we delve into the realm of Exercise Physiology and Nutrition, leveraging the power of EON AI Assistant for Hard Skills. Prepare to embark on a transformative learning journey that combines advanced technology with comprehensive knowledge to understand the intricacies of human performance, exercise, and nutrition.

Knowledge Portal with Floating Annotations:

Experience an immersive learning environment with the EON AI Assistant. Our Knowledge Portal with Floating Annotations feature includes:

- **Hero Images:** Engage with visually stimulating content related to exercise and nutrition.
- **10 Floating Knowledge Portals:** Access interactive modules featuring images, text, videos, and AI Avatars that explain key concepts.

3-D Model Integration:

- Utilize 3-D models from EON's extensive library to explore the human body's physiology during exercise.
- For instance, visualize muscle contractions in three dimensions for a deeper understanding.

Annotations for the 3-D Model:

- Automatically generated annotations will provide insights into the various anatomical structures involved in exercise.

- In early 2024, expect image recognition-based annotations for enhanced learning.

Assessment Creation Automatic:

- Assess your knowledge with various quiz formats tailored to exercise physiology, including locating specific muscle groups and identifying their functions.
- Stay engaged with future quiz types arriving in 2024.

AI-Generated Universal Skill Simulator (3D assessment):

- Experience standard exercise procedures in 3-D animations, guided by an AI avatar.
- Receive instant feedback as you perform exercises, ensuring you grasp essential skills.

Interactive Simulation Scenarios (add-on module):

- Simulate real-world exercise scenarios, from personalized workout plans to muscle activation during different exercises.
- Create your unique exercise simulations using Eon Interact (additional fee).

Incident Simulation (add-on module):

- Address exercise-related incidents, such as injuries or emergency responses.
- Assess your ability to handle exercise-related incidents using AI-driven simulations (additional fee).

Sports Psychology and Mental Training

Unlock the secrets of peak athletic performance and mental resilience with our Sports Psychology and Mental Training course powered by EON AI Assistant for Hard Skills. Explore the psychology behind sports, and master the mental techniques that can make or break an athlete's success.

Knowledge Portal with Floating Annotations:

Engage deeply with the psychology of sports through the EON AI Assistant. Our Knowledge Portal with Floating Annotations offers:

- **Hero Images:** Visualize iconic moments in sports psychology.

- **10 Floating Knowledge Portals:** Access interactive modules featuring images, text, videos, and AI Avatars that explain key psychological principles.

3-D Model Integration:

- Utilize 3-D models to explore the brain's role in sports psychology, visualizing neural pathways and their impact on performance.

Annotations for the 3-D Model:

- Automatically generated annotations provide insights into brain structures and functions related to sports psychology.
- Look forward to image recognition-based annotations for an even deeper understanding (Q1 2024).

Assessment Creation Automatic:

- Assess your knowledge with various quiz formats tailored to sports psychology, including understanding athlete mindset and psychological techniques.
- Additional quiz types coming in 2024.

AI-Generated Universal Skill Simulator (3D assessment):

- Immerse yourself in real-life sports scenarios, guided by an AI avatar.
- Learn how to handle high-pressure situations, maintain focus, and optimize mental performance.

Interactive Simulation Scenarios (add-on module):

- Step into the shoes of athletes facing mental challenges, from crucial game moments to handling stress.
- Create your unique mental training simulations using Eon Interact (additional fee).

Incident Simulation (add-on module):

- Address critical incidents in sports psychology, such as athlete burnout or performance anxiety.
- Assess your ability to handle these incidents using AI-driven simulations (additional fee).

Faculty of Law

Legal Studies and Practice

Contract Law Simulations

Delve deep into the world of contract law using immersive simulations. Experience and understand the intricacies of contract formations, breaches, remedies, and more.

Knowledge Portal with Floating Annotations:

- **Hero Image**: A symbolic representation of two parties sealing an agreement.
- **Floating Knowledge Portals**: Explore ten crucial aspects of contract law, such as offer, acceptance, consideration, capacity, and more.
    - **Images**: Visual depictions of contractual elements.
    - **Text**: Detailed descriptions and legal precedents.
    - **Videos**: Expert discussions and case study analyses.
    - **AI Avatar**: An AI legal advisor walking you through the foundations and complexities of contract law.

3-D Model Integration:

- View intricate contract documents and legal artifacts in 3D, sourced from EON's vast library.
- Illustrative example: 3-D model of a wax-sealed contract from historical contexts.

Annotations for the 3-D Model:

- Annotations detailing specific legal jargons and terms found in contracts.

Assessment Creation:

- Quizzes focusing on identification of contract clauses, breaches, and remedies.

AI Generated Universal Skill Simulator:

- Role-play simulations on contract negotiations and dispute resolutions.

Interactive Simulation Scenarios:

- Engage in virtual negotiations and deal-making scenarios to understand the practical side of contract law.

Incident Simulation:

- Simulate breaches of contract scenarios and the resulting legal implications and resolutions.

International Law and Relations in VR

Dive into the dynamic realm of international relations and law. Experience diplomatic interactions, treaty formations, and global politics in a fully immersive VR environment.

Knowledge Portal with Floating Annotations:

- Hero Image: The United Nations General Assembly in session.
- Floating Knowledge Portals: Explore ten key principles of international law, such as sovereignty, diplomatic immunity, and the laws of war.
    - Images: Iconic international treaties and agreements.
    - Text: Discussions on international relations theories and principles.
    - Videos: Archived footage of major global events.
    - AI Avatar: An AI diplomat guiding you through global politics and laws.

3-D Model Integration:

- Explore 3D landmarks like the International Court of Justice and the UN headquarters.

Annotations for the 3-D Model:

- Annotations highlighting key aspects of landmark treaties and global events.

Assessment Creation:

- Quizzes on global politics, major treaties, and international relations principles.

AI Generated Universal Skill Simulator:

- Simulations of diplomatic dialogues and treaty negotiations.

Interactive Simulation Scenarios:

- Engage in simulated UN sessions or peace treaty negotiations.

Incident Simulation:

- Handle international crises and conflicts, understanding the legal and diplomatic actions that ensue.

Constitutional Law and Government Systems

Discover the bedrock of nations – their constitutions. Engage with different governmental systems and understand their foundations and workings in depth.

Knowledge Portal with Floating Annotations:

- Hero Image: A parchment displaying a constitution's preamble.
- Floating Knowledge Portals: Dive into ten essential elements of constitutions, from fundamental rights to the separation of powers.
    - Images: Pictorial representation of historical constitutional moments.
    - Text: In-depth analysis of various constitutional clauses.
    - Videos: Documentaries on the formation and evolution of constitutions.
    - AI Avatar: An AI constitutional expert enlightening you on the spirit and letter of constitutions.

3-D Model Integration:

- Explore 3D replicas of national assemblies and courts.

Annotations for the 3-D Model:

- Annotations explaining constitutional amendments and landmark judgments.

Assessment Creation:

- Quizzes on constitutional principles, landmark cases, and governmental systems.

AI Generated Universal Skill Simulator:

- Simulate legislative sessions or courtroom hearings on constitutional matters.

Interactive Simulation Scenarios:

- Participate in simulated parliamentary debates or constitutional drafting sessions.

Incident Simulation:

- Simulate incidents challenging constitutional norms and understand the legal outcomes.

Criminal Law and Forensic Evidence in AR

Embark on an immersive journey into the world of Criminal Law and Forensic Evidence through the cutting-edge EON AI Assistant for Hard Skills. In this course, you'll explore the intricacies of criminal investigations, forensic procedures, and legal principles like never before. Dive into augmented and virtual reality experiences that bring crime scenes to life, guided by state-of-the-art AI technology.

Knowledge Portal with Floating Annotations:

- Engage with our hero images, presenting real crime scenes and forensic evidence.
- Explore 10 Knowledge Portals featuring:
    - High-resolution crime scene images.
    - Detailed text descriptions of legal precedents.
    - Video walkthroughs of forensic techniques.
    - Interact with an AI Avatar offering in-depth explanations of evidence analysis.

3-D Model Integration:

- Delve into 3-D models of crime scenes, allowing you to walk through and interact with the environment.
- Observe 3-D recreations of forensic evidence, enhancing your understanding of how it's analyzed.
- For example, examine a 3-D model of a crime scene and forensic evidence associated with a murder case.

Annotations for the 3-D Model:

- Automatically generated annotations provide insight into the significance of each piece of evidence.
- IntelliScan technology identifies and labels evidence, ensuring comprehensive coverage.
- Optionally, users can add their own annotations for a deeper understanding.

Assessment Creation Automatic:

- Test your knowledge with a variety of assessment tools tailored to the course material:
    - Standard drop-down menu quizzes on legal principles.
    - Locate quizzes challenging your knowledge of crime scene details.
    - Identify quizzes on forensic evidence.
    - Jeopardy-style quizzes for a fun and engaging review.
- Future quizzes in 2024 will include drag and drop, matching, ordering, true/false, and short answer formats.

AI-Generated Universal Skill Simulator (3D assessment):

- Experience the top five standard operational procedures in forensic investigations.
- Witness auto-generated forensic procedures transformed into 3-D animations.
- Practice and demonstrate forensic techniques, with AI providing feedback on your performance.
- For instance, engage in simulated evidence collection and analysis, such as fingerprint identification.

Interactive Simulation Scenarios (add-on module):

- Engage in real-life crime scenarios presented with 3-D models and Knowledge Portals.
- Create your own crime scene simulations using Eon Interact, allowing for a hands-on experience in investigative procedures.
- Develop essential skills through immersive, interactive scenarios.

Incident Simulation (add-on module):

- Navigate through incident-based scenarios using the Knowledge Portal.
- Test your skills by assessing and responding to various criminal incidents.
- Create your own incident simulations using Eon Interact, offering a comprehensive understanding of real-world challenges.

Corporate and Commercial Law Simulations

Discover the nuances of Corporate and Commercial Law in a groundbreaking learning experience facilitated by the EON AI Assistant for Hard Skills. Journey through the complex world of business law, contracts, and corporate governance, all within an immersive augmented and virtual reality environment.

Knowledge Portal with Floating Annotations:

- Immerse yourself in corporate boardrooms and legal chambers through hero images.
- Access 10 Knowledge Portals with:
    - Visual representations of corporate transactions.
    - In-depth text explanations of contract law.
    - Video insights into negotiation strategies.
    - Engage with an AI Avatar providing guidance on legal principles.

3-D Model Integration:

- Step into 3-D models of corporate settings, gaining a deeper understanding of business operations.
- Explore 3-D contract models, dissecting their clauses and implications.
- For instance, interact with a 3-D model of a corporate merger, understanding the legal complexities involved.

Annotations for the 3-D Model:

- Automatically generated annotations offer insights into the legal aspects of contracts and corporate transactions.
- Utilize IntelliScan technology for precise labeling of contractual clauses.
- Optionally, enhance your knowledge by adding custom annotations.

Assessment Creation Automatic:

- Test your comprehension of corporate and commercial law with various assessment tools, including:
    - Standard drop-down menu quizzes on legal statutes.
    - Locate quizzes challenging your understanding of contract terms.
    - Identify quizzes assessing your knowledge of corporate governance.
    - Engage in Jeopardy-style quizzes for an interactive review.
- Future quiz formats in 2024 will encompass drag and drop, matching, ordering, true/false, and short answer questions.

AI-Generated Universal Skill Simulator (3D assessment):

- Gain proficiency in handling legal procedures within the corporate world.
- Experience auto-generated corporate legal processes as 3-D animations.

- Practice and demonstrate your corporate law skills, with AI offering feedback on your performance.
- For instance, engage in a simulated contract negotiation.

Interactive Simulation Scenarios (add-on module):

- Navigate real-world corporate scenarios with 3-D models and Knowledge Portals.
- Create custom corporate law simulations using Eon Interact, honing your skills in contract drafting, negotiation, and corporate governance.
- Enhance your abilities through immersive, interactive scenarios.

Incident Simulation (add-on module):

- Explore incident-based corporate challenges through the Knowledge Portal.
- Assess your problem-solving skills in response to complex corporate incidents.
- Create your own incident-based corporate simulations using Eon Interact, gaining practical experience in handling business crises.

Faculty of Forestry

Forestry and Wood Technology

Forest Management and Conservation in VR

Dive into the intricacies of forest ecosystems using virtual reality. Understand forest management techniques, conservation methods, and the balance of nature in an immersive experience.

Knowledge Portal with Floating Annotations:

- *Hero Image:* A panoramic view of a dense forest during sunrise.
- *Floating Knowledge Portals:* 10 portals focusing on different forest zones, species diversity, and conservation techniques.
    - Images of various forest types, wildlife habitats, and conservation methods.
    - Text explaining forest ecology, challenges in conservation, and sustainable management.

- Videos showcasing forest management practices, wildlife monitoring, and the impact of deforestation.
- An AI Avatar explaining the interconnectedness of forest ecosystems and the importance of conservation.

3-D Model Integration:

- Virtual walkthroughs of forest terrains from EON's library.
- An image of a dense rainforest as a placeholder if required.
- Illustrative example: A 3-D model of a sequoia tree, showcasing its root structure, and bark details.
- Option to integrate scanned 3-D objects like rare plant species or specific forest tools.

Annotations for the 3-D Model:

- Annotations on forest flora and fauna.
- Auto-generated annotations explaining the role of specific species.
- IntelliScan feature showcasing the importance of each plant species in the ecosystem.
- Manual annotation options for specific forest zones.

Assessment Creation Automatic:

- Quizzes on forest ecology, species identification, and conservation strategies.
- Locate and identify key species and forest zones.
- Jeopardy-style quiz on forest management practices.

AI Generated Universal Skill Simulator:

- Virtual simulations of forest management techniques.
- Demonstrations of reforestation efforts, wildlife monitoring, and habitat restoration.
- AI-guided forest walkthroughs.

Interactive Simulation Scenarios:

- VR scenarios showcasing the effects of deforestation, forest fires, and conservation efforts.
- Manual creation of specific forest management scenarios.

Incident Simulation:

- Real-life incidents like illegal logging or wildlife poaching presented in VR.

- Assessments based on forest conservation incidents.

Wildlife Ecology and Habitat Analysis

Step into the wild and understand the dynamics of animal habitats, their ecological importance, and the methods to analyze them effectively.

Knowledge Portal with Floating Annotations:

- *Hero Image:* A serene savannah with grazing herbivores.
- *Floating Knowledge Portals:* 10 portals showcasing different habitats, animal behaviors, and ecological patterns.
    - Images of diverse habitats, migration patterns, and animal interactions.
    - Text on the principles of wildlife ecology and habitat significance.
    - Videos on animal behavior, ecological balance, and habitat restoration.
    - An AI Avatar elucidating the balance of the food chain and human impact on wildlife.

3-D Model Integration:

- Interactive 3-D habitats from EON's library, like wetlands, deserts, and forests.
- Illustrative example: A 3-D model of a lion pride interacting within their territory.
- Options to include personal 3-D scans of specific animal species or habitats.

Annotations for the 3-D Model:

- Annotations on animal species, their roles in the ecosystem, and habitat features.
- IntelliScan feature displaying animal behaviors, diet, and migratory patterns.
- Option for users to add specific annotations on endangered species.

Assessment Creation Automatic:

- Quizzes on animal behaviors, ecological cycles, and habitat identification.
- Identify quizzes focusing on specific animal species and their roles.
- Jeopardy-style quiz on ecological balance and human impacts.

AI Generated Universal Skill Simulator:

- Virtual experiences of tracking animal movements, understanding territorial behaviors, and ecological interactions.
- AI-guided analysis of specific habitats and their significance.

Interactive Simulation Scenarios:

- VR experiences of animal migrations, interspecies interactions, and habitat disruptions.
- User-created scenarios of specific animal behavior studies.

Incident Simulation:

- AI-presented incidents of habitat destruction, human-animal conflicts, and conservation challenges.
- Assessments based on specific ecological incidents.

Wood Technology and Timber Design in AR

Discover the art and science of wood technology. Delve into timber design principles and applications in augmented reality, enhancing your understanding and skills.

Knowledge Portal with Floating Annotations:

- *Hero Image:* A beautifully designed wooden structure showcasing the versatility of timber.
- *Floating Knowledge Portals:* 10 portals emphasizing different wood types, processing methods, and design principles.
    - Images of various timber types, wood processing techniques, and finished products.
    - Text explaining the science behind wood technology, strength parameters, and design considerations.
    - Videos of timber processing, design execution, and innovative wood-based structures.
    - An AI Avatar detailing the importance of sustainable timber use and design principles.

3-D Model Integration:

- AR integration of different timber structures from EON's library.
- Illustrative example: A 3-D model of a wooden bridge showcasing strength and design aesthetics.
- Options to integrate personal CAD designs or 3-D scans of unique wooden artifacts.

Annotations for the 3-D Model:

- Annotations on different wood types, their properties, and design implications.
- IntelliScan feature for understanding wood grain patterns, strength parameters, and aesthetic considerations.
- Manual annotation options for specific timber design techniques.

Assessment Creation Automatic:

- Quizzes on wood properties, timber design principles, and sustainability considerations.
- Identify and locate quizzes on specific timber types and their applications.
- Jeopardy-style quiz on wood processing and design innovations.

AI Generated Universal Skill Simulator:

- AR simulations of timber processing techniques, wood testing, and design implementations.
- AI-guided walkthroughs of wood technology principles and their real-world applications.

Interactive Simulation Scenarios:

- AR experiences showcasing the transformation of raw wood to finished products, design execution, and innovative structures.
- User-created scenarios exploring the depths of wood technology and design.

Incident Simulation:

- Real-life incidents of timber failures, design challenges, and innovative solutions presented in AR.
- Assessments based on specific timber-related incidents.

Agroforestry and Sustainable Practices

The course on "Agroforestry and Sustainable Practices" uses the EON AI Assistant to provide an immersive learning experience on integrated agricultural and forestry practices. With 3D models, interactive simulations, and guided assessments, learners gain a comprehensive understanding of sustainable farming techniques and their ecological benefits.

Knowledge Portal with Floating Annotations:

- Hero Image: A vibrant agroforestry landscape showcasing integrated agricultural and forestry practices.

- **Floating Knowledge Portals**: 10 interactive portals displaying images, text, and videos on topics such as mixed farming systems, ecological benefits, and tree-crop interactions. An AI avatar will guide learners through various agroforestry practices and their environmental impacts.

3-D Model Integration:

- **Models**: Interactive 3D models of agroforestry systems, including silvopasture, alley cropping, and forest farming.
- **Placeholder**: In the absence of a specific model, images of agroforestry practices are displayed.
- **Illustrative example**: A 3D model of a multi-layered agroforestry system.
- **Editing and Personal Integration**: Users can edit models or import personal diagrams of their farm or a specific agroforestry practice.

Annotations for the 3-D Model:

- **Automated Annotations**: Details on tree species, understorey crops, and farming techniques.
- **IntelliScan**: Recognizes specific species or farming tools, providing detailed annotations.
- **Manual Additions**: Users can add their notes or observations related to specific agroforestry systems.

Assessment Creation:

- **Quizzes**: Test knowledge on agroforestry principles, benefits, and challenges. Quizzes range from identifying specific tree species to understanding agroecological interactions.

AI Generated Universal Skill Simulator:

- **Simulations**: Virtual interaction with different agroforestry systems. Demonstrate skills such as planting patterns, optimizing sunlight, and maximizing biodiversity. The AI avatar provides feedback and assessment.

Interactive Simulation Scenarios:

- **Scenarios**: Deal with real-life challenges such as pest control, drought management, and intercropping. Users interact with 3D models to devise sustainable solutions.

Incident Simulation:

- **Incidents**: Address issues like soil erosion, water scarcity, or pest infestations in agroforestry. Users are assessed on their problem-solving abilities.

Forest Products and Processing Technologies

The "Forest Products and Processing Technologies" course, powered by the EON AI Assistant, offers a deep dive into the world of forest product creation. From harvesting

to final product, learners interact with 3D models, face real-world scenarios, and receive expert guidance to understand the intricacies of sustainable forest product processing.

Knowledge Portal with Floating Annotations:
- Hero Image: A panoramic view of a thriving forest and a processing unit.
- Floating Knowledge Portals: 10 interactive sections highlighting the journey from timber harvesting to the production of finished goods. The AI avatar delves deep into processing techniques, machinery, and the significance of sustainable harvesting.

3-D Model Integration:
- Models: Detailed 3D depictions of processing machinery, timber quality types, and stages of product creation.
- Placeholder: In scenarios where a model isn't available, images of forest products are shown.
- Illustrative example: A 3D model of a modern lumber mill.
- Editing and Personal Integration: Users can modify models or introduce diagrams of specific machinery or products.

Annotations for the 3-D Model:
- Automated Annotations: Information on machinery parts, timber grades, and processing stages.
- IntelliScan: Identifies specific forest products or machinery components, offering precise annotations.
- Manual Additions: Users can append notes or insights related to product processing.

Assessment Creation:
- Quizzes: Evaluate learners on forest product types, machinery functions, and sustainable processing protocols.

AI Generated Universal Skill Simulator:
- Simulations: Interact with virtual processing units, from raw timber sorting to finished product packaging. The AI avatar evaluates and guides throughout.

Interactive Simulation Scenarios:
- Scenarios: Tackle real-world challenges like machinery breakdowns, quality control, and waste management, using 3D models.

Incident Simulation:
- Incidents: Address crises such as forest fires, supply shortages, or product recalls, testing the user's crisis management skills.

Faculty of Transport and Traffic Sciences

Transportation and Logistics

Traffic Engineering and Management in VR

Explore the intricacies of traffic engineering and management in a comprehensive virtual reality setting with the EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Dive into a VR cityscape as your backdrop, showing real-world traffic scenarios.
- 10 floating knowledge portals demonstrate different traffic situations, like peak hour congestion, pedestrian zones, and traffic signal operations.
- AI Avatar guides through key concepts, including traffic flow theories, congestion management, and infrastructure planning.

3-D Model Integration:

- Interact with 3D models of traffic lights, roundabouts, bridges, and flyovers.
- If a specific model isn't available, relevant traffic images are used.
- Illustrative example: A 3D intersection detailing its design and flow optimization.
- Customize with personal CAD designs or scanned real-world traffic setups.

Annotations for the 3-D Model:

- Understand key components with annotations on traffic models.
- IntelliScan identifies specific traffic instruments, signs, and markings for enhanced learning.

Assessment Creation:

- Test knowledge through quizzes based on real-world traffic scenarios.
- Identify traffic signs, match them with their meanings, or sequence traffic management processes.

AI Generated Universal Skill Simulator:

- Engage in VR simulations of traffic management tasks, from congestion control to accident management.
- Showcase traffic solutions, with AI assessing feasibility and efficiency.

Interactive Simulation Scenarios:

- Navigate traffic simulations, from managing a busy intersection to handling a marathon day in the city.
- Create specific traffic scenarios to understand their implications on city dynamics.

Incident Simulation:

- Deal with traffic incidents in VR, from minor fender benders to major accidents, assessing impacts and solutions.

Air Transport and Flight Simulations

Take to the skies and understand the complexities of air transport with immersive flight simulations using the EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Experience a virtual airport terminal and runway.
- 10 portals explain flight dynamics, air traffic control, aircraft types, and runway operations.
- AI Avatar describes aerodynamics, flight protocols, and air traffic management.

3-D Model Integration:

- Engage with 3D aircraft models, from commercial jets to cargo planes.
- Absorb details through illustrative examples, such as a 3D cockpit illustrating flight controls.
- Integrate personal aircraft designs for a tailored experience.

Annotations for the 3-D Model:

- Dive deeper into aircraft parts, control systems, and more with annotations.
- IntelliScan highlights instruments, control surfaces, and other critical aircraft components.

Assessment Creation:

- Participate in quizzes, identifying aircraft types, interpreting air traffic control signals, or sequencing a takeoff process.

AI Generated Universal Skill Simulator:

- Embark on flight simulations, from taking off and cruising to landing.
- Demonstrate piloting skills with the AI providing feedback and guidance.

Interactive Simulation Scenarios:

- Manage real-life flight scenarios: emergency landings, air traffic coordination, or weather challenges.
- Design specific flight situations to understand aviation challenges better.

Incident Simulation:

- Address in-flight incidents, ensuring passenger safety, and managing crises.

Maritime Transport and Port Operations

Sail the virtual seas and grasp the nuances of maritime transport and port operations with the EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Begin at a bustling virtual seaport.
- 10 portals detail ship types, cargo handling, docking procedures, and sea navigation.
- AI Avatar explains international maritime laws, port management, and cargo logistics.

3-D Model Integration:

- Engage with 3D ship models, from oil tankers to cruise liners.
- Illustrative example: A 3D cargo crane detailing its functions and operations.
- Add personal ship designs for a comprehensive maritime experience.

Annotations for the 3-D Model:

- Understand vessel components, cargo types, and port equipment through annotations.
- IntelliScan identifies specific maritime tools, signaling equipment, and navigation aids.

Assessment Creation:

- Test maritime knowledge through quizzes on ship identification, international maritime signals, or the sequencing of a docking procedure.

AI Generated Universal Skill Simulator:

- Experience virtual ship navigation and cargo handling operations.
- Demonstrate maritime skills, with AI assessing performance and efficiency.

Interactive Simulation Scenarios:

- Manage real-world maritime situations, from navigating busy shipping lanes to overseeing port cargo operations.
- Customize maritime scenarios to explore various challenges.

Incident Simulation:

- Handle maritime incidents, from onboard fires to piracy threats, ensuring ship safety and cargo security.

Rail Transport and Infrastructure Design

Dive into the intricate world of rail transport and infrastructure design with the EON AI Assistant. This immersive course uses cutting-edge augmented and virtual reality to convert traditional course material into interactive 3D models, simulations, and assessments, enhancing experiential learning in rail transport and infrastructure.

Features:

- Knowledge Portal with Floating Annotations:
  - Hero image showcasing iconic rail infrastructure from around the world.
  - 10 interactive knowledge portals featuring images, text, videos, and an AI avatar explaining complex rail infrastructure concepts, design principles, and construction techniques.
- 3-D Model Integration:
  - Detailed 3-D models of trains, stations, and rail networks sourced from EON's vast library.
  - Interactive sessions with a high-speed train or a subway station as illustrative examples.
  - Option to integrate personal CAD designs of rail infrastructure.
- Annotations for the 3-D Model:
  - Comprehensive annotations detailing each component of rail systems.

    - IntelliScan feature available for image recognition-based annotations on rail components.
- Assessment Creation:
    - A range of quizzes focusing on rail infrastructure design principles, materials, and safety regulations.
    - Upcoming quizzes on track layouts, signaling systems, and station design.
- AI Generated Universal Skill Simulator:
    - Engaging simulations on the construction and maintenance of rail tracks, signaling systems, and stations.
    - Demonstrations on advanced rail technologies, with the AI avatar assessing user performance.
- Interactive Simulation Scenarios:
    - Real-life scenarios of rail infrastructure challenges and solutions.
    - Manual simulation creation option on rail network planning and disaster management.
- Incident Simulation:
    - AI-driven incident simulations highlighting potential challenges in rail transport like derailments or signal failures.
    - Assessments based on user's decision-making skills during these incidents.

Urban Transport and Smart Mobility

Step into the future of urban transport and smart mobility with the EON AI Assistant. This course transforms traditional material into a dynamic augmented and virtual reality experience, enabling learners to understand the design, implementation, and challenges of modern urban transport systems.

Features:

- Knowledge Portal with Floating Annotations:
    - Hero image displaying modern urban landscapes with integrated transport systems.
    - 10 knowledge portals with images, text, videos, and an AI avatar elaborating on urban transport solutions, traffic management, and smart mobility innovations.
- 3-D Model Integration:
    - 3-D models of urban vehicles, transport hubs, and smart mobility solutions.

        - Detailed exploration of a smart bus terminal or an electric car charging station as illustrative examples.
        - Integration of personal CAD models related to urban transport designs.
- Annotations for the 3-D Model:
    - Detailed annotations on urban transport vehicles, infrastructure, and smart technologies.
    - IntelliScan feature for image recognition-based annotations on different urban mobility components.
- Assessment Creation:
    - Quizzes on urban transport planning, sustainable solutions, and smart mobility technologies.
    - Future quizzes on autonomous vehicles, urban planning, and traffic management.
- AI Generated Universal Skill Simulator:
    - Simulations on the design and functioning of smart traffic lights, electric vehicle charging, and shared mobility solutions.
    - AI avatar-guided demonstrations on the integration of AI in urban transport.
- Interactive Simulation Scenarios:
    - Scenarios depicting the challenges and advancements in urban transport like congestion management and public transport optimization.
    - Manual simulation creation option on urban transport policy-making and tech integration.
- Incident Simulation:
    - AI-driven scenarios showcasing incidents in urban transport, such as smart traffic light failures or electric vehicle malfunctions.
    - Evaluations based on user responses to these urban mobility challenges.

Catholic Faculty of Theology

Religious Studies and Theology

Religious Art and Architecture in VR

Dive deep into the wonders of religious art and architecture through the immersive experience of Virtual Reality. Discover, interact, and learn from intricate artworks, iconic monuments, and sacred edifices across different faiths.

Knowledge Portal with Floating Annotations:

- *Hero Image*: A panoramic view of the Sistine Chapel, showcasing Michelangelo's iconic ceiling.
- *Floating Knowledge Portals*: Featuring 10 iconic religious monuments like Notre-Dame, the Hagia Sophia, and more. Each portal contains:
    - Images of the artwork or architecture.
    - Text describing its historical and religious significance.
    - Videos with architectural critiques and expert interviews.
    - An AI Avatar guiding you through the structure, narrating stories and facts.

3-D Model Integration:

- A detailed 3-D model of St. Peter's Basilica.
- Option to explore other religious structures from EON's library.
- Users can import their personal CAD models of their favorite religious edifice.

Annotations for the 3-D Model:

- Annotations detailing key architectural elements.
- The IntelliScan feature offers image recognition-based annotations.
- Option for users to manually annotate features.

Assessment Creation:

- Quizzes on architectural styles, historical timelines, and cultural influences.
- Identify quiz: Match religious artworks to their respective eras or regions.
- Jeopardy-style quiz focusing on religious architecture facts.

AI Generated Universal Skill Simulator:

- Demonstrations on constructing basic religious architectural elements.
- 3-D animations showcasing the evolution of religious architecture.

Interactive Simulation Scenarios:

- Virtual visits to iconic religious sites, with AI-generated narrations.
- Users can create custom simulations, detailing their unique architectural insights.

Incident Simulation:

- Scenarios depicting historical events linked to particular religious sites.
- Users can recreate important religious ceremonies or events in these structures.

Biblical Studies and Sacred Texts

Embark on an enlightening journey through sacred scriptures. Delve into the profound meanings, historical contexts, and spiritual insights offered by the Bible and other revered texts.

Knowledge Portal with Floating Annotations:

- *Hero Image*: An ancient manuscript of the Bible.
- *Floating Knowledge Portals*: Showcasing 10 pivotal scriptures from the Old and New Testaments, each portal entails:
    - Images of the original manuscripts.
    - Textual interpretations and explanations.
    - Videos of theological discussions.
    - An AI Avatar guiding through verses, offering historical context.

3-D Model Integration:

- 3-D model of the Dead Sea Scrolls.
- Exploration of other religious manuscripts from EON's library.
- Option for users to import images or scans of their personal scriptures.

Annotations for the 3-D Model:

- Detailed annotations of scriptural verses and their meanings.
- IntelliScan for image recognition-based annotations on different versions of the Bible.
- Manual annotation options available for personal insights.

Assessment Creation:

- Quizzes on biblical characters, events, and parables.
- Identify quiz: Match scriptures with their respective authors or time periods.
- Jeopardy-style quiz based on biblical teachings.

AI Generated Universal Skill Simulator:

- Demonstrations on ancient manuscript preservation.
- 3-D animations depicting biblical events, offering a vivid visualization of the scriptures.

Interactive Simulation Scenarios:

- AI-curated journeys through historical events detailed in the scriptures.
- Users can create custom simulations, focusing on their favorite biblical stories.

Incident Simulation:

- AI-avatar led recreations of key biblical events.
- Customizable simulations, allowing users to virtually participate in biblical narratives.

Christian Ethics and Moral Theology

Explore the philosophical underpinnings of Christian teachings. Understand the moral constructs, ethical guidelines, and theological discourses that shape Christian thought.

Knowledge Portal with Floating Annotations:

- *Hero Image*: Iconic portrayal of the Ten Commandments.
- *Floating Knowledge Portals*: Detailing 10 major Christian ethics like love, forgiveness, and humility, each portal provides:
    - Images related to ethical teachings.
    - Texts elucidating theological reasoning.
    - Videos of sermons and theological debates.
    - An AI Avatar explaining the application of each ethic in daily life.

3-D Model Integration:

- 3-D visualization of the Sermon on the Mount.
- Access to other key moments from Christ's life via EON's library.
- Users can integrate 3-D models of modern-day moral dilemmas.

Annotations for the 3-D Model:

- Annotations offering deeper insights into Christ's teachings.
- IntelliScan feature for recognizing varying interpretations of ethics across denominations.
- Option to manually annotate personal reflections on Christian ethics.

Assessment Creation:

- Quizzes evaluating understanding of Christian moral constructs.
- Identify quiz: Relate ethical principles to biblical stories.
- Jeopardy-style quiz centered on theological interpretations.

AI Generated Universal Skill Simulator:

- Demonstrations on the practical application of Christian ethics in contemporary scenarios.
- 3-D animations showcasing moral dilemmas and their resolutions based on Christian teachings.

Interactive Simulation Scenarios:

- AI-guided experiences of ethical scenarios from biblical times to present day.
- Users can craft simulations representing their moral challenges and seek theological insights.

Incident Simulation:

- AI-driven reconstructions of moral conflicts from the Bible.
- Custom simulations allowing users to assess and reflect on their ethical choices in virtual scenarios.

History of the Church and Religious Movements

Dive deep into the intricate history of the Church and religious movements, utilizing the cutting-edge features of the EON AI Assistant. This course offers an immersive experience using augmented and virtual reality, transforming traditional learning materials into an interactive 3D journey.

Knowledge Portal with Floating Annotations:

- Explore a majestic cathedral as your hero image, acting as the backdrop for your learning experience.
- Navigate through 10 floating knowledge portals, each dedicated to different eras or significant events in the history of the Church.
- Each portal contains images of ancient scriptures, texts describing the events, videos of historical reenactments, and an AI Avatar guiding you through the significance of each event.

3-D Model Integration:

- Interact with detailed 3D models of important religious artifacts from EON's vast library.
- In the absence of a specific model, view detailed images of relics, places, or significant figures.
- For instance, delve into a 3D model of the Gutenberg Bible and explore its significance.

Annotations for the 3-D Model:

- Auto-generated annotations provide insights into various religious artifacts and their importance in history.
- Upcoming IntelliScan feature to enhance the understanding of images with recognition-based annotations.
- Personalize your learning by manually adding notes and annotations to models.

Assessment Creation:

- Test your knowledge with a range of quizzes focused on different eras, events, or figures.
- Engage with Jeopardy-style quizzes themed around different religious movements.
- Future quizzes will further test your understanding through various formats.

AI Generated Universal Skill Simulator:

- Engage with standard practices and rituals of the Church.
- Witness ancient ceremonies and rites in 3D, guided by the AI Avatar, understanding their significance and evolution.
- Demonstrate your grasp of practices, receiving feedback from AI.

Interactive Simulation Scenarios:

- Simulate significant events like the Council of Nicaea or Martin Luther's Ninety-Five Theses.
- Create your scenarios delving into lesser-known events using Eon Interact.

Incident Simulation:

- Relive incidents that shaped the Church's history.
- Assess your understanding of these incidents and create new simulations for a comprehensive learning experience.

Pastoral Care and Counseling in AR

Embark on a transformative journey into the world of pastoral care and counseling, leveraging the advanced capabilities of the EON AI Assistant. This course combines traditional pastoral teachings with augmented reality, offering an enriched learning experience.

Knowledge Portal with Floating Annotations:

- Begin with a serene chapel setting as your hero image, setting the tone for your exploration.
- Navigate 10 knowledge portals, each addressing different counseling techniques, case studies, or theological underpinnings.

- Immerse yourself in images of pastoral settings, text on counseling methodologies, videos of counseling sessions, and guidance from an AI Avatar.

3-D Model Integration:

- Interact with 3D models of various pastoral settings, counseling tools, or symbolic objects.
- View images of historical pastoral figures or counseling sessions when a model isn't available.
- For example, visualize a 3D model of a counseling session setup, understanding the dynamics of space.

Annotations for the 3-D Model:

- Annotations elucidate different counseling tools, techniques, or significant theological symbols.
- The upcoming IntelliScan feature will enhance image-based learning.
- Personalize your study with manual annotations, tailoring the content to your interests.

Assessment Creation:

- Assess your understanding of pastoral care methodologies, theological foundations, and counseling scenarios.
- Engage in Jeopardy-style quizzes centered on counseling techniques.
- Future assessments will deepen your grasp of pastoral care nuances.

AI Generated Universal Skill Simulator:

- Experience standard counseling sessions, understanding the nuances of pastoral care.
- Watch these sessions transform into 3D animations, with the AI avatar guiding you through best practices.
- Practice counseling techniques and receive AI-generated feedback on your approach.

Interactive Simulation Scenarios:

- Simulate complex counseling scenarios, understanding the intricacies of pastoral care.
- Utilize Eon Interact to design your simulations, focusing on specific counseling challenges.

Incident Simulation:

- Relive pivotal moments in pastoral care or challenging counseling sessions.
- Assess and reflect on these incidents, enhancing your pastoral care acumen.

Academy of Fine Arts

Art and Design

Virtual Art Galleries and Exhibitions

Delve deep into the realm of virtual art galleries and exhibitions with our comprehensive course facilitated by the EON AI Assistant. Explore intricately designed 3D galleries, interact with exquisite art pieces, and gain profound insights into curating and setting up virtual exhibitions.

Features:

Knowledge Portal with Floating Annotations:
- Experience art in a unique manner by browsing through a hero image of a renowned art gallery.
- Navigate through 10 distinct knowledge portals displaying high-resolution images, detailed texts, videos, and an AI avatar narrating the history, significance, and unique aspects of each exhibit.

3-D Model Integration:
- Witness breathtaking 3D renditions of iconic art galleries from EON's extensive library.
- Should a specific gallery not be in the library, view it through an immersive placeholder image.
- Engage with a 3D model of a contemporary art installation, enhancing your understanding of spatial dynamics.
- Import and view personal gallery designs and integrate them into the virtual space.

Annotations for the 3-D Model:
- Explore auto-generated floating annotations that provide detailed insights into artworks and architectural elements.
- Experience the IntelliScan feature from 2024, revolutionizing the way you perceive art through image recognition-based annotations.
- Personalize your learning by adding manual annotations.

Assessment Creation:
- Test your understanding with quizzes designed around art history, gallery curation, and more.
- Engage in various quiz formats, ranging from identifying famous artworks to Jeopardy-style quizzes on art movements.
- Look forward to an enriched assessment experience with innovative quiz formats launching in 2024.

AI Generated Universal Skill Simulator:

- Learn the nuances of gallery curation, artwork placement, and lighting setups through AI-guided 3D animations.
- Watch procedures transform into interactive 3D simulations, making the learning process engaging.
- In the absence of a 3D model, immerse yourself in a detailed 2D representation.

Interactive Simulation Scenarios:

- Deepen your understanding by engaging in AI-generated real-life scenarios of gallery setups.
- Create your virtual art exhibitions using Eon Interact, bringing your vision to life.

Incident Simulation:

- Encounter real-world challenges in the art exhibition world, presented by an AI avatar.
- Design solutions for these challenges, refining your problem-solving skills in the realm of art exhibition and gallery management.

Sculpture and 3D Art in AR

Dive into the immersive world of sculpture and 3D art using augmented reality powered by the EON AI Assistant. This comprehensive course is designed for artists, learners, and enthusiasts seeking to enhance their skills and explore the fusion of traditional sculpture techniques with cutting-edge AR technology.

Features:

Knowledge Portal with Floating Annotations:

- Experience the beauty of famous sculptures with hero images, detailing the history and evolution of sculptural techniques.
- Engage with 10 floating knowledge portals, each with images, text, and videos related to various sculpture styles and materials.
- Benefit from an AI Avatar, guiding you through intricate details and processes involved in sculpture creation.

3-D Model Integration:

- Interact with detailed 3D models of iconic sculptures from around the world.
- Utilize placeholder images for sculptures not available in the 3D format.
- Personalize your learning by importing your own sculptures or 3D scans.

Annotations for the 3-D Model:

- Delve deeper into sculpture art with auto-generated floating annotations, highlighting crucial points and techniques.

- Utilize the IntelliScan feature for recognizing specific sculpture styles and materials.

Assessment Creation:
- Test your knowledge with quizzes designed around sculptural techniques and history.
- Engage in short answer quizzes about renowned sculptors and their contributions.

AI Generated Universal Skill Simulator:
- Engage in hands-on exercises, learning the art of sculpture creation, detailing, and finishing, all guided by an AI avatar.
- Showcase your sculptural techniques, receiving feedback from AI for improvement.

Interactive Simulation Scenarios:
- Immerse yourself in real-life sculptural studios, observing and participating in live sculpture creation and exhibitions.
- Craft your own simulation scenarios based on personal art projects.

Incident Simulation:
- Witness historical incidents related to sculpture, such as the discovery of lost artworks, restoration techniques, and more.
- Be assessed on incident-related knowledge and skills.

Painting Techniques and Color Theory

Embark on a colorful journey into painting techniques and the science of color theory with the EON AI Assistant. This intensive course caters to budding artists, professionals, and color enthusiasts, blending traditional painting methods with modern AR experiences.

Features:

Knowledge Portal with Floating Annotations:
- Revel in famous paintings, showcasing varied techniques and styles across eras.
- Engage with 10 floating knowledge portals filled with images, text, and videos centered on different painting styles and mediums.
- The AI Avatar will guide you through the complex world of color palettes, brush strokes, and blending techniques.

3-D Model Integration:
- Dive into interactive 3D models of painting tools, canvases, and setups.
- Placeholders offer detailed breakdowns of unavailable painting styles or tools.

- Import your own artwork or painting equipment for a personalized experience.

Annotations for the 3-D Model:
- Gain insights into painting techniques with auto-generated floating annotations.
- The IntelliScan feature identifies and explains intricate painting details.

Assessment Creation:
- Evaluate your grasp on color theory and painting techniques through diverse quizzes.
- Tackle short answer quizzes on famous painters, their styles, and contributions.

AI Generated Universal Skill Simulator:
- Experience hands-on painting sessions, mastering strokes, blending, and other techniques with the AI avatar's guidance.
- Showcase your painting abilities and receive AI-driven feedback.

Interactive Simulation Scenarios:
- Immerse in realistic painting studios, exhibitions, and workshops.
- Create simulations of your personal art journeys and projects.

Incident Simulation:
- Relive significant events in the world of painting, like the restoration of classic artworks or the unveiling of forgotten masterpieces.
- Get assessed on incident-related expertise.

Multimedia Art and Digital Creation in VR

Dive into the immersive world of multimedia art and digital creation using the power of virtual reality. With the EON AI Assistant, you're not just learning—you're experiencing. From designing 3D assets to comprehending the intricate details of digital art, this course offers an unparalleled journey into the realm of virtual artistry.

Features:

Knowledge Portal with Floating Annotations:
- Explore a hero image of iconic multimedia art pieces.
- Navigate through 10 interactive portals that showcase digital art techniques, tools, and inspirations with detailed images, explanatory text, videos, and AI-driven avatar insights.

3-D Model Integration:
- Interact with 3D models of multimedia tools, software interfaces, and exemplary art pieces.
- Discover tools like digital drawing pads, VR sculpting tools, and software interfaces in a tangible format.

- Personalize your learning by importing CAD models of your art for a detailed critique.

Annotations for the 3-D Model:

- Get instant, context-aware annotations on digital art tools and methodologies.
- The upcoming IntelliScan feature will further enhance your understanding through image recognition-based annotations.

Assessment Creation:

- Test your understanding through a variety of quizzes—identify multimedia tools, locate techniques on a canvas, or dive deep into the history of a digital art movement.

AI Generated Universal Skill Simulator:

- Practice digital drawing techniques, VR sculpting, or 3D modeling through skill simulators.
- Receive real-time feedback from the AI on your technique and areas of improvement.

Interactive Simulation Scenarios:

- Engage in realistic scenarios where you solve design challenges, implement multimedia concepts, or create virtual art galleries.
- Have the option to simulate your art exhibitions using Eon Interact.

Incident Simulation:

- Overcome potential challenges in digital art creation—whether it's troubleshooting a software glitch or deciding the best tool for a specific design requirement.
- Evaluate your decisions in these simulations to ensure optimal outcomes.

Art History and Virtual Museums

Embark on a time-traveling journey through the epochs of art history. Using the EON AI Assistant, you'll virtually walk through museums, witnessing the evolution of art firsthand—from the cave paintings of prehistoric times to the modern digital art of today.

Features:

Knowledge Portal with Floating Annotations:

- Stand before a hero image of renowned art periods and pivotal moments in art history.
- Wander through 10 portals detailing significant eras, artists, and art movements—each accompanied by rich images, descriptive text, videos, and enlightening explanations from our AI avatar.

3-D Model Integration:

- Experience 3D replicas of iconic art pieces, sculptures, and artifacts.
- Walk through virtual reconstructions of historical art settings, like Leonardo's workshop or an impressionist's Parisian studio.
- Explore detailed 3D museum layouts and design your own exhibitions.

Annotations for the 3-D Model:

- Receive insightful annotations on artworks, detailing the context, techniques, and significance of each piece.
- Await the IntelliScan feature for even deeper art insights based on image recognition.

Assessment Creation:

- Challenge your knowledge with quizzes on art periods, identify masterpieces, or delve into the socio-political context behind artworks.

AI Generated Universal Skill Simulator:

- Role-play as museum curators, art historians, or restoration experts.
- Engage with 3D animations of art restoration processes or curation methodologies, guided by an AI avatar.

Interactive Simulation Scenarios:

- Solve real-world scenarios faced by museum curators, from designing exhibitions to preserving ancient artifacts.
- Design virtual museum tours or art exhibitions using Eon Interact.

Incident Simulation:

- Handle incidents typical in the art world—like addressing artwork damage or managing art controversies.
- Reflect on your decisions and learn the best practices in the world of art curation.

Academy of Dramatic Art

Performance and Production

Theater Production in Virtual Reality

Step onto the virtual stage and immerse yourself in the intricacies of theater production with the advanced capabilities of the EON AI Assistant. Engage with the world of theater in an unprecedented way, experiencing every aspect from script analysis to the final curtain call in virtual reality.

EON AI Features Applied:

- Knowledge Portal with Floating Annotations:
  - Delve deep into the history of theater, viewing classical and contemporary plays through hero images, snippets, and immersive scenes.
  - Interact with floating knowledge portals offering insights on various plays, theater forms, and playwrights, complemented by images, text, videos, and an AI avatar explaining different theater elements.
- 3-D Model Integration:
  - Engage with detailed 3D models of famous theater stages, props, and set designs.
  - Visualize the entire theater setup, from backstage to the audience seats.
  - Experience a virtual walkthrough of various theater forms from around the world.
- Annotations for the 3-D Model:
  - Access floating annotations detailing set designs, stage cues, and lighting positions.
  - IntelliScan feature coming in 2024 will recognize intricate set pieces and provide context and history.
- Assessment Creation:
  - Take quizzes on theater terminology, stage directions, and the roles of different crew members.
  - Challenge your understanding of theater scripts with the Jeopardy-style quiz, and practice set designing with drag-and-drop exercises.
- AI Generated Universal Skill Simulator:
  - Watch AI-generated 3D animations of theater production processes, from script readings to final dress rehearsals.
  - Simulate a director's role, making virtual decisions and receiving performance feedback from the AI avatar.
- Interactive Simulation Scenarios:
  - Engage in real-life theater production scenarios, such as handling a technical glitch during a live show or coordinating a cast of diverse actors.
  - Create your theater simulations and receive feedback.
- Incident Simulation:
  - Handle simulated theater incidents, such as prop malfunctions or unexpected stage events.
  - Assess your decision-making skills during these incidents.

Harness the power of virtual reality to explore and perfect the craft of acting. With the EON AI Assistant, analyze performances, perfect techniques, and immerse yourself in the world of acting like never before.

EON AI Features Applied:

- Knowledge Portal with Floating Annotations:
  - Explore the evolution of acting techniques from Stanislavski to Meisner through immersive portals.
  - AI avatars detail specific acting methods, complemented by performance snippets, images, and text.
- 3-D Model Integration:
  - Engage with 3D models of stages, acting studios, and renowned theater spaces.
  - Rehearse scenes on virtual sets and get real-time feedback.
- Annotations for the 3-D Model:
  - Detailed annotations on posture, gestures, and voice modulation techniques.
  - IntelliScan to identify and elaborate on props and costumes in 2024.
- Assessment Creation:
  - Quizzes on different acting techniques, famous performances, and characterization.
  - Engage in role-playing exercises and receive performance analyses.
- AI Generated Universal Skill Simulator:
  - Watch AI-generated animations detailing famous acting performances.
  - Engage in performance simulations, with AI avatars providing feedback and suggestions.
- Interactive Simulation Scenarios:
  - Participate in acting scenarios ranging from auditions to major theater productions.
  - Practice improvisation techniques in varied settings.
- Incident Simulation:
  - React to unforeseen incidents during performances, like forgetting lines or prop mishaps.
  - Test your improvisation skills and stage presence during these simulations.

Step behind the camera and immerse yourself in the world of film production and cinematography with the power of augmented reality. EON AI Assistant takes you on a journey from pre-production to post-production, allowing you to experience the magic of filmmaking firsthand.

EON AI Features Applied:

- Knowledge Portal with Floating Annotations:
  - Explore the history of cinema, from silent films to the digital age.
  - AI avatars guide you through the evolution of cinematography techniques with videos, images, and text.
- 3-D Model Integration:
  - Engage with 3D models of film sets, camera equipment, and studio setups.
  - Visualize shot compositions and scene layouts in real-time.
- Annotations for the 3-D Model:
  - Receive detailed annotations on camera angles, lighting setups, and scene compositions.
  - Future IntelliScan feature to recognize and explain intricate camera equipment.
- Assessment Creation:
  - Quizzes on film genres, cinematography techniques, and production roles.
  - Engage in scene composition exercises and analyze shot sequences.
- AI Generated Universal Skill Simulator:
  - Watch AI-generated animations of film production processes and behind-the-scenes action.
  - Simulate a director's or cinematographer's role, visualizing scenes and receiving AI feedback.
- Interactive Simulation Scenarios:
  - Participate in film production scenarios, from location scouting to final scene shoot.
  - Create your film sequences using augmented reality tools.
- Incident Simulation:
  - Handle simulated on-set incidents, such as equipment malfunction or lighting issues.
  - Make real-time decisions and assess the impact on the final product.

Dive deep into the world of scriptwriting and storyboarding using the immersive and interactive EON AI Assistant. From understanding the intricacies of character development to visualizing scenes in augmented reality, embark on a journey that blends creativity with technology.

Knowledge Portal with Floating Annotations:

- Display a hero image showcasing iconic script pages and storyboard sketches.
- 10 floating knowledge portals covering:
    - Introduction to scriptwriting.
    - Basics of character development.
    - Story arcs and plot structures.
    - Visualization techniques for storyboarding.
    - Tools used in the industry.
    - Case studies of famous scripts.
    - Evolution of storyboarding.
    - Transitioning from script to screen.
    - The role of dialogue in scripts.
    - Collaborative scriptwriting and storyboarding.

3-D Model Integration:

- Experience a 3-D model of a film set, illustrating the transition from script to realization.
- Explore illustrative models like vintage typewriters, storyboard sketches, and shooting scripts.
- Opportunity to upload personal scripts and convert them into 3-D storyboard sequences.

Annotations for the 3-D Model:

- Floating annotations explaining film set components, typewriter mechanics, and storyboard symbols.
- IntelliScan feature highlights key elements of script pages and storyboard frames.

Assessment Creation:

- Quizzes focusing on scriptwriting techniques, character arcs, and storyboard interpretation.
- Challenges that ask students to identify scripts from iconic movies or sequence storyboard sketches.

AI Generated Universal Skill Simulator:

- Engage with standard processes of scriptwriting and storyboarding.
- Watch AI-generated 3-D animations illustrating the journey from idea to script and then to storyboard.
- Practice and demonstrate scriptwriting snippets and storyboard sketches, with AI assessments.

Interactive Simulation Scenarios:

- Experience AI-identified scenarios like a writer's room brainstorm or storyboard planning.
- Simulate the process of transforming a written scene into a visual storyboard using EON Interact.

Incident Simulation:

- Encounter common challenges and incidents in scriptwriting, like writer's block or storyboarding inconsistencies.
- Engage in solutions and strategies to address these incidents.

Sound Design and Music in Performance

Explore the mesmerizing world of sound design and music in performance through the lens of EON AI Assistant. Understand the nuances of acoustics, delve into the history of music, and engage with virtual soundscapes, all in augmented and virtual reality.

Knowledge Portal with Floating Annotations:

- Display a hero image capturing a sound studio or a grand musical performance.
- 10 floating knowledge portals that encompass:
    - Basics of sound design.
    - History of music in performance.
    - Acoustic principles.
    - Instruments and their tonal qualities.
    - Evolution of sound technologies.
    - Iconic soundtracks and their impact.
    - Role of background scores in performances.
    - Sound mixing and mastering.
    - Live vs. recorded performances.
    - Ambient sounds and their influence on mood.

3-D Model Integration:

- Experience a 3-D virtual sound studio with instruments, mixers, and sound booths.
- Discover illustrative examples like classical instruments, modern synthesizers, and soundboards.
- Upload personal compositions and listen to them in a virtual concert hall.

Annotations for the 3-D Model:

- Annotations detailing instrument parts, soundboard knobs, and studio equipment functionalities.
- IntelliScan to identify different musical notes, instrument types, and sound waves.

Assessment Creation:

- Quizzes on acoustic science, history of sound design, and musical genres.
- Challenges to recognize musical instruments, iconic scores, or sound effects from performances.

AI Generated Universal Skill Simulator:

- Engage in standard sound design procedures and music creation.
- Experience AI-generated 3-D animations of a symphony orchestra, sound editing sessions, or live performances.
- Compose and adjust soundtracks, getting feedback from the AI on tonal quality and harmony.

Interactive Simulation Scenarios:

- AI-driven scenarios showcasing a music recording session or a sound design brainstorm.
- Simulate the art of balancing multiple soundtracks or orchestrating a musical piece using EON Interact.

Incident Simulation:

- Address challenges in sound design, such as noise interference or off-tune instruments.
- Strategize and resolve such incidents, learning best practices in sound design and music composition.

Academy of Music

Music and Performance

Music Theory and Composition in VR

Embark on a virtual journey into the heart of music theory and composition. Using the immersive EON AI Assistant, uncover the foundational principles of music and learn to compose melodies in a virtual environment.

Knowledge Portal with Floating Annotations:

- A hero image portraying a sheet of classical music composition.
- 10 floating knowledge portals covering:
    - Fundamentals of music theory.
    - Scales and modes.
    - Chord progressions.
    - Harmony and counterpoint.
    - Dynamics and tempo markings.
    - Melody construction.
    - The Circle of Fifths.
    - Transposition techniques.
    - Notation systems.
    - Contemporary composition techniques.

3-D Model Integration:

- Interact with a 3-D virtual piano, displaying real-time note identification and chord progressions.
- Illustrative examples like classical music sheets and contemporary composition tools.
- Import personal compositions for analysis and feedback.

Annotations for the 3-D Model:

- Annotations explaining notes, scales, and harmonic intervals.
- IntelliScan highlighting musical patterns and chord structures.

Assessment Creation:

- Quizzes on music theory concepts, chord recognition, and rhythmic patterns.
- Composition challenges to test students' understanding and application.

AI Generated Universal Skill Simulator:

- Experience AI-guided lessons on melody creation, chord progression assembly, and more.
- Compose in real-time, receiving feedback from AI on harmony and structure.

Interactive Simulation Scenarios:

- Simulate the process of composing for different genres and instruments using EON Interact.
- AI-identified scenarios of famous compositions and their structure analysis.

Incident Simulation:

- Address common challenges in composition, such as melodic continuity or harmonic mismatch.
- Engage with solutions through guided simulations.

Instrumental Techniques and Performance

Immerse yourself in the dynamic world of instrumental techniques and performance. With the EON AI Assistant, experience instruments in 3D, master playing techniques, and witness virtual live performances.

Knowledge Portal with Floating Annotations:

- Display a hero image of an orchestra or a solo instrumentalist.
- 10 floating knowledge portals covering:
    - Basics of instrumental techniques.
    - Anatomy of different instruments.
    - Breathing and posture for instrumentalists.
    - Fingering techniques.
    - Bowing, plucking, and strumming methods.
    - Percussive techniques.
    - Advanced playing techniques.
    - Solo vs. ensemble playing.
    - Role of an instrument in an ensemble.
    - Mastering performance dynamics.

3-D Model Integration:

- Explore 3-D models of instruments like the violin, flute, guitar, and drums.
- Navigate through virtual concert halls and practice rooms.
- Option to upload personal instrumental compositions and watch a virtual ensemble play them.

Annotations for the 3-D Model:

- Annotations explaining instrument parts, playing postures, and performance techniques.
- IntelliScan to identify different instrument parts and their function.

Assessment Creation:

- Quizzes on instrument identification, playing techniques, and performance dynamics.
- Challenges to recognize specific instrumental techniques or nuances in performances.

AI Generated Universal Skill Simulator:

- Engage in standard instrumental playing procedures.
- Watch AI-generated 3D animations of performance practices, ensemble coordination, and solo techniques.
- Practice playing sequences with AI feedback.

Interactive Simulation Scenarios:

- Experience AI-identified scenarios like an ensemble rehearsal or solo performance preparation.
- Simulate instrumental performance dynamics using EON Interact.

Incident Simulation:

- Address common challenges in instrumental performance such as handling instrument malfunctions.
- Learn strategies to overcome performance anxiety and technical difficulties.

Dive into the fascinating realm of voice training and vocal techniques. Experience, in augmented and virtual reality, the intricacies of the human voice, and master the art of singing.

Knowledge Portal with Floating Annotations:

- Display a hero image of a vocalist or a choir in performance.
- 10 floating knowledge portals detailing:
    - Introduction to vocal anatomy.
    - Basics of voice training.
    - Breathing techniques for singing.
    - Vocal warm-ups and exercises.
    - Finding and mastering vocal registers.
    - Art of projection and resonance.
    - Vocal health and maintenance.
    - Advanced vocal techniques.
    - Role of emotion in vocal performance.
    - Diction and articulation in singing.

3-D Model Integration:

- Experience a 3D model of vocal cords, a singing stage, and a recording booth.
- Visualize illustrative models of microphones, amplifiers, and vocal effects equipment.
- Option to upload personal vocal recordings and receive virtual feedback.

Annotations for the 3-D Model:

- Annotations explaining the anatomy of the vocal cords, microphone techniques, and effects settings.
- IntelliScan to understand the intricacies of vocal production.

Assessment Creation:

- Quizzes on vocal anatomy, singing styles, and vocal techniques.
- Challenges to differentiate between various vocal registers or recognize vocal techniques.

AI Generated Universal Skill Simulator:

- Engage in voice training exercises.

- Watch AI-generated animations showcasing proper vocal technique, breath control, and emotive singing.
- Practice vocal scales and receive AI feedback.

Interactive Simulation Scenarios:

- AI-driven scenarios like a vocal lesson or a choir rehearsal.
- Simulate vocal performances and studio recordings using EON Interact.

Incident Simulation:

- Address issues like vocal strain or pitch inaccuracies.
- Learn strategies for vocal recovery and technique refinement.

Music History and Ethnomusicology in AR

Embark on a historical journey of music from around the world. Through augmented reality, delve deep into the evolution of music and explore the rich tapestry of global musical traditions.

Knowledge Portal with Floating Annotations:

- Display a hero image of ancient musical instruments or traditional music gatherings.
- 10 floating knowledge portals covering:
    - Introduction to music history.
    - Evolution of musical styles and genres.
    - Impact of historical events on music.
    - Introduction to ethnomusicology.
    - Music in traditional societies.
    - Folk music from around the world.
    - Historical instruments and their evolution.
    - Influence of migration on music.
    - Sacred vs. secular music in history.
    - Iconic figures in music history.

3-D Model Integration:

- Experience 3D models of historical instruments, music manuscripts, and ancient musical gatherings.
- Explore illustrative models like ancient lyres, tribal drums, or medieval music sheets.

- Engage with AR reenactments of historical musical events.

Annotations for the 3-D Model:

- Annotations detailing instrument histories, musical symbols, and ethnomusicological contexts.
- IntelliScan to gain insights into various cultural musical practices.

Assessment Creation:

- Quizzes on music history timelines, global music cultures, and ethnomusicological concepts.
- Challenges to recognize historical music pieces or traditional instruments.

AI Generated Universal Skill Simulator:

- Experience reenactments of historical musical events.
- Engage with AI-generated animations showcasing traditional music performances from various cultures.
- Learn about iconic figures in music history through interactive lessons.

Interactive Simulation Scenarios:

- AI-driven scenarios like a Renaissance music festival or a tribal music ceremony.
- Explore traditional music techniques and contexts using EON Interact.

Incident Simulation:

- Address cultural misunderstandings in music.
- Engage in discussions about the preservation of traditional music forms.

Music Technology and Production

Navigate the world of music technology and production with unparalleled detail. With augmented and virtual reality, understand the tools, techniques, and trends that shape modern music production.

Knowledge Portal with Floating Annotations:

- Display a hero image of a modern music studio or a DJ in action.
- 10 floating knowledge portals detailing:

- Introduction to music technology.
- Evolution of recording technologies.
- Basics of sound engineering.
- Digital Audio Workstations (DAWs) and their functionalities.
- MIDI and electronic music production.
- Synthesis and sound design.
- Mixing and mastering techniques.
- Live sound vs. studio production.
- Music distribution in the digital age.
- Future trends in music technology.

3-D Model Integration:

- Experience a 3D model of a modern music studio, synthesizers, mixers, and DAW interfaces.
- Navigate virtual music production setups and engage with interactive equipment.
- Option to upload personal tracks and mix them in a virtual studio.

Annotations for the 3-D Model:

- Annotations explaining studio equipment, software interfaces, and music production techniques.
- IntelliScan to understand the intricacies of sound engineering and music tech.

Assessment Creation:

- Quizzes on DAW functionalities, sound engineering principles, and music production techniques.
- Challenges to mix tracks, design sounds, or master a composition.

AI Generated Universal Skill Simulator:

- Engage in music production exercises.
- Watch AI-generated animations showcasing mixing techniques, sound design, or mastering procedures.
- Produce tracks with AI guidance.

Interactive Simulation Scenarios:

- AI-driven scenarios simulating a recording session or a live sound setup.

- Engage in real-time music production tasks using EON Interact.

Incident Simulation:

- Address technical glitches during live performances.
- Learn strategies for effective sound checks and equipment troubleshooting.

School of Dental Medicine

Dental Practice and Oral Health

Dental Procedures and Techniques in VR

Delve into the intricacies of dental procedures using virtual reality, exploring modern techniques and practices in the dental world, all powered by the EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Hero image displaying a dentist performing a procedure on a patient.
- 10 floating knowledge portals covering:
    - Introduction to dental procedures.
    - Preventive dental practices.
    - Restorative dental techniques.
    - Cosmetic dentistry.
    - Dental surgeries.
    - Root canal therapy.
    - Periodontal treatments.
    - Tooth extractions.
    - Dental anesthesia.
    - Post-operative care.

3-D Model Integration:

- Interactive 3-D models of dental instruments, chair setups, and procedure demonstrations.
- Explore illustrative models of dental handpieces, scalers, and procedural kits.
- Option to view personalized dental procedure demonstrations.

Annotations for the 3-D Model:

- Detailed annotations on instrument functions, procedure steps, and patient care.
- IntelliScan feature to identify specific instruments and their correct usage.

Assessment Creation:

- Quizzes on dental procedure knowledge, instrument identification, and technique application.
- Simulated procedural challenges for hands-on practice.

AI Generated Universal Skill Simulator:

- Engage with standard dental procedure demonstrations.
- Watch AI-generated 3-D animations of specific dental treatments.
- Practice procedural techniques with AI assessment and feedback.

Interactive Simulation Scenarios:

- Virtual scenarios of dental clinic setups, patient consultations, and real-time procedures.
- Simulate various dental procedures using EON Interact.

Incident Simulation:

- Address unexpected challenges during dental procedures, like instrument malfunction or patient reactions.
- Strategize best responses to such challenges with AI guidance.

Oral Anatomy and Physiology

Explore the wonders of the human oral cavity, understanding its structures, functions, and importance in overall health with the EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Hero image showcasing an illustrative oral cavity.
- 10 floating knowledge portals detailing:
    - Introduction to oral anatomy.
    - Structure of teeth.
    - Oral mucosa and its types.
    - Salivary glands and saliva composition.
    - Tongue and its functions.
    - Palate formation and features.

- Jaw structures and temporomandibular joint.
- Periodontal ligaments and gum anatomy.
- Blood supply and neural structures.
- Physiology of mastication and deglutition.

3-D Model Integration:

- Detailed 3-D models of the oral cavity, individual teeth, and associated structures.
- Explore illustrative models of dental arches, salivary glands, and oral tissues.
- Visualize and rotate detailed models for a comprehensive view.

Annotations for the 3-D Model:

- Annotations describing tooth morphology, tissue types, and physiological processes.
- IntelliScan feature for in-depth identification and exploration of oral structures.

Assessment Creation:

- Quizzes on oral anatomy identification, physiological processes, and clinical significance.
- Challenges related to diagnostic scenarios based on anatomy.

AI Generated Universal Skill Simulator:

- Standard demonstrations of oral physiological processes.
- AI-generated 3-D animations of mastication, salivation, and speech processes.
- Interactive walkthroughs of various oral anatomical regions.

Interactive Simulation Scenarios:

- Scenarios showcasing oral pathology and its relation to anatomy and physiology.
- Explore clinical cases using EON Interact, relating them to underlying anatomical structures.

Incident Simulation:

- Encounter common oral pathologies and their implications on oral anatomy and physiology.
- Discuss diagnostic and therapeutic interventions based on anatomical understanding.

Embark on a journey through the specialized fields of orthodontics and prosthodontics, learning about braces, dentures, crowns, and more with the EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Hero image displaying a patient with braces and another with a dental prosthesis.
- 10 floating knowledge portals exploring:
    - Introduction to orthodontics.
    - Teeth alignment and malocclusions.
    - Braces, retainers, and aligners.
    - Orthodontic surgeries and interventions.
    - Introduction to prosthodontics.
    - Dentures – complete and partial.
    - Dental crowns and bridges.
    - Dental implants.
    - Maxillofacial prosthetics.
    - Recent advancements in both fields.

3-D Model Integration:

- Engaging 3-D models of various orthodontic appliances, dental prostheses, and treatment outcomes.
- Explore models of different types of braces, denture designs, and implant structures.
- Opportunity for students to view case-specific orthodontic and prosthodontic designs.

Annotations for the 3-D Model:

- Annotations explaining the function, material, and indications of each appliance and prosthesis.
- IntelliScan feature to highlight specific components and their importance.

Assessment Creation:

- Quizzes focused on orthodontic diagnosis, prosthodontic design, and treatment planning.
- Practical challenges involving case discussions and treatment options.

AI Generated Universal Skill Simulator:

- Standard demonstrations of orthodontic adjustments and prosthodontic fittings.
- AI-guided animations showing the process of teeth alignment and prosthetic creation.
- Hands-on simulation of orthodontic appliance placements and prosthodontic fittings.

Interactive Simulation Scenarios:

- Real-life scenarios like orthodontic consultations, prosthodontic design sessions, and post-treatment reviews.
- Engage with patient-specific treatment plans and simulations using EON Interact.

Incident Simulation:

- Address challenges such as orthodontic emergencies, prosthetic breakages, or patient discomfort.
- Learn to manage and troubleshoot these incidents effectively.

Pediatric Dentistry and Child Oral Health

Journey into the world of pediatric dentistry and discover the intricacies of child oral health. Utilize the EON AI Assistant to understand dental procedures, anatomy, and preventative measures in a richly interactive AR environment tailored for young patients.

Knowledge Portal with Floating Annotations:

- Feature a hero image showcasing a pediatric dental office.
- 10 floating knowledge portals covering:
    - Introduction to pediatric dentistry.
    - Anatomy of a child's mouth and dental development stages.
    - Common pediatric dental issues.
    - Preventative measures for child oral health.
    - Pediatric oral surgeries.
    - Pediatric orthodontics.
    - Handling dental anxiety in children.
    - Dental care for infants.
    - Fluoride treatments and sealants.
    - Nutrition and child oral health.

3-D Model Integration:

- Interact with a 3-D model of a child's mouth showcasing the dental development.

- Explore illustrative models of dental tools, orthodontic devices, and more.
- Option to upload and view detailed dental scans of young patients.

Annotations for the 3-D Model:

- Detailed annotations on tooth anatomy, dental instruments, and procedure steps.
- IntelliScan feature identifying different dental issues, treatment options, and preventative care measures.

Assessment Creation:

- Quizzes on child dental anatomy, common pediatric dental issues, and best practices.
- Identify scenarios and select appropriate treatment options.

AI Generated Universal Skill Simulator:

- Dive into standard pediatric dental procedures using 3-D animations.
- Practically apply preventative measures, assess dental issues, and recommend treatments with AI assessments.

Interactive Simulation Scenarios:

- Encounter AI-identified scenarios such as a routine dental check-up for a child or addressing dental anxiety.
- Utilize EON Interact to simulate a pediatric dental surgery or orthodontic adjustments.

Incident Simulation:

- Manage challenges like handling uncooperative young patients or emergency dental situations.
- Strategize and apply best practices to ensure child comfort and effective treatment.

Dental Radiology and Imaging in AR

Dive deep into the domain of dental radiology, enhanced by the capabilities of Augmented Reality. Utilize the EON AI Assistant to master imaging techniques, interpret radiographs, and experience dental diagnostics like never before.

Knowledge Portal with Floating Annotations:

- Feature a hero image of a state-of-the-art dental radiology suite.
- 10 floating knowledge portals that encompass:
    - Basics of dental radiology.
    - Different types of dental radiographs.
    - Safety measures in dental radiology.
    - Interpretation of common dental radiographs.
    - Digital vs. traditional radiography.
    - Panoramic radiography.
    - Cone-beam computed tomography (CBCT).
    - Dental radiology in orthodontics.
    - Imaging techniques for periodontal diseases.
    - Radiation dosage and risks.

3-D Model Integration:

- Engage with a 3-D model of a dental X-ray machine and imaging suite.
- Explore illustrative examples of various dental radiographs.
- Opportunity to upload and view real dental X-ray images in augmented reality.

Annotations for the 3-D Model:

- Annotations explaining machine components, radiograph types, and dental structures visible in X-rays.
- IntelliScan to distinguish between healthy and problematic dental structures in radiographs.

Assessment Creation:

- Quizzes on dental radiology principles, interpretation skills, and imaging techniques.
- Challenges to interpret different dental radiographs and diagnose conditions.

AI Generated Universal Skill Simulator:

- Visualize and understand complex dental conditions using 3-D animations.
- Demonstrate skills in capturing radiographs, with AI comparing and assessing performance.

Interactive Simulation Scenarios:

- AI-driven scenarios showcasing a patient's radiographic examination or a CBCT scan.
- Simulate the process of capturing and interpreting dental radiographs using EON Interact.

Incident Simulation:

- Address incidents like radiation exposure concerns or unclear radiographic images.
- Apply troubleshooting methods to ensure clear images and patient safety.

Faculty of Pharmacy and Biochemistry

Pharmaceutical Sciences

Drug Design and Molecular Pharmacology in VR

Experience the fascinating realm of drug design and molecular pharmacology in augmented and virtual reality. Delve deep into molecular structures, drug interactions, and innovative pharmacological principles through immersive learning.

Knowledge Portal with Floating Annotations:

- A hero image showcasing molecular structures and drug design blueprints.
- 10 floating knowledge portals encompassing:
    - Basics of drug design.
    - Principles of molecular pharmacology.
    - Drug-receptor interactions.
    - Structural biology in drug design.
    - Molecular dynamics simulations.
    - Drug discovery processes.
    - High-throughput screening.
    - Drug design strategies: rational vs. computer-aided.
    - Drug optimization techniques.
    - Evolution of pharmacological targets.

3-D Model Integration:

- Explore 3-D models of various drug molecules, receptors, and drug-receptor complexes.
- Illustrative example: 3-D structure of a novel drug interacting with its protein target.
- Option to upload and view molecular structures of interest.

Annotations for the 3-D Model:

- Annotations detailing molecular moieties, active sites, and drug-receptor interactions.
- IntelliScan highlights key interactions and molecular dynamics.

Assessment Creation:

- Quizzes on molecular pharmacology concepts, drug design strategies, and drug-receptor dynamics.
- Interactive challenges, like matching drugs to their corresponding targets.

AI Generated Universal Skill Simulator:

- Engage with the drug design process, from molecular conception to optimization.
- AI-guided 3-D animations illustrate drug-receptor binding and molecular interactions.
- Simulate the process of optimizing a drug molecule for increased efficacy.

Interactive Simulation Scenarios:

- AI-driven scenarios of drug discovery labs, molecular simulations, and pharmacological testing.
- Use EON Interact to design a novel drug molecule and predict its pharmacological effects.

Incident Simulation:

- Address challenges like unexpected drug-receptor interactions or off-target effects.
- Strategize solutions to optimize drug efficacy and minimize side effects.

Dive into the intricate world of biochemistry and enzymes, experiencing firsthand the molecular dance that powers life. Through augmented and virtual reality, witness the marvels of cellular mechanisms and enzymatic reactions.

Knowledge Portal with Floating Annotations:

- Hero image showcasing a dynamic enzymatic reaction.
- 10 floating knowledge portals highlighting:
    - Introduction to biochemistry.
    - Structure and function of enzymes.
    - Mechanism of enzyme action.
    - Factors affecting enzymatic reactions.
    - Energy metabolism.
    - DNA replication and protein synthesis.
    - Biochemical pathways.
    - Enzyme inhibitors and their impact.
    - Techniques in studying enzymes.
    - Applications of enzymes in industries.

3-D Model Integration:

- Interact with a 3-D model of an enzyme-substrate complex.
- Explore illustrative models like DNA helix, protein structures, and cellular organelles.
- Option to visualize complex biochemical reactions in real-time.

Annotations for the 3-D Model:

- Annotations elucidating enzyme active sites, substrate interaction, and energy transitions.
- IntelliScan feature identifying enzyme cofactors, substrates, and reaction products.

Assessment Creation:

- Quizzes on enzyme kinetics, biochemical cycles, and molecular biology concepts.
- Analytical tasks asking students to decipher enzymatic graphs or predict reaction outcomes.

AI Generated Universal Skill Simulator:

- Practice standard biochemical experiments and enzyme assays.
- Experience AI-generated 3-D animations showcasing enzyme mechanisms and metabolic pathways.
- Demonstrate understanding of biochemical principles with AI-guided evaluations.

Interactive Simulation Scenarios:

- AI-driven scenarios like enzyme deficiency disorders or metabolic pathway disruptions.
- Simulate laboratory experiments to measure enzyme activity using EON Interact.

Incident Simulation:

- Address real-world challenges, such as enzyme denaturation or genetic mutations.
- Explore solutions and understand the implications of such biochemical disruptions.

Pharmacokinetics and Drug Metabolism

Journey through the body's response to medications, tracing the path of drugs from absorption to elimination. Experience pharmacokinetics in action, understanding how the body affects drugs and how drugs influence the body.

Knowledge Portal with Floating Annotations:

- Hero image depicting drug absorption in the body.
- 10 floating knowledge portals exploring:
    - Introduction to pharmacokinetics.
    - Absorption of drugs.
    - Drug distribution in the body.
    - Mechanism of drug metabolism.
    - Routes of drug elimination.
    - Factors influencing drug metabolism.
    - Drug-drug interactions.
    - Drug design and delivery.
    - Population pharmacokinetics.
    - Advanced techniques in drug analysis.

3-D Model Integration:

- Engage with a 3-D model of the human body highlighting drug pathways.

- Delve into illustrative models showcasing liver metabolism, renal excretion, and cellular drug interactions.
- Option to visualize the journey of a drug molecule through various body systems.

Annotations for the 3-D Model:

- Annotations explaining drug molecules, cellular receptors, and metabolic pathways.
- IntelliScan feature highlighting metabolic enzymes, drug carriers, and excretory routes.

Assessment Creation:

- Quizzes on pharmacokinetic principles, drug half-life, and metabolism pathways.
- Analytical tasks asking students to calculate drug dosage or predict metabolic outcomes.

AI Generated Universal Skill Simulator:

- Engage in simulated drug administration and monitor pharmacokinetic profiles.
- Experience AI-generated 3-D animations visualizing drug absorption, distribution, metabolism, and excretion.
- Interpret pharmacokinetic data with AI-guided feedback.

Interactive Simulation Scenarios:

- AI-identified scenarios like drug overdoses or unexpected drug reactions.
- Simulate drug administration in various clinical scenarios using EON Interact.

Incident Simulation:

- Address challenges like drug toxicity or unexpected drug-drug interactions.
- Strategize and understand the underlying mechanisms causing these incidents.

Cosmetic Science and Dermatological Formulations

Embark on a fascinating journey into the science of beauty and skin. Discover the secrets behind cosmetic formulations and delve into the intricate world of dermatology with augmented and virtual reality experiences.

Knowledge Portal with Floating Annotations:

- Hero image presenting a spectrum of cosmetic products and skin layers.
- 10 floating knowledge portals exploring:
    - Basics of cosmetic science.
    - Skin anatomy and physiology.
    - Formulation of skincare products.
    - Role of active ingredients.
    - Stability and safety testing in cosmetics.
    - Anti-aging and therapeutic formulations.
    - Cosmetic regulations and compliance.
    - Dermatological disorders and treatments.
    - Technological advances in cosmetic science.
    - Ethical considerations in cosmetics.

3-D Model Integration:

- Interact with a 3-D model of skin layers and cosmetic product formulations.
- Explore models like lipstick formulations, cream emulsions, and skin cells.
- Visualize the impact of cosmetic products on different skin layers.

Annotations for the 3-D Model:

- Annotations describing ingredients, formulation techniques, and skin responses.
- IntelliScan identifies cosmetic compounds, skin cells, and potential irritants.

Assessment Creation:

- Quizzes on cosmetic ingredients, formulation techniques, and dermatological principles.
- Analytical tasks asking students to design a cosmetic formulation or diagnose skin conditions.

AI Generated Universal Skill Simulator:

- Practice the formulation of cosmetics and skincare products.
- Watch AI-generated 3-D animations demonstrating the creation of emulsions, serums, and other products.
- Test cosmetic formulations under various conditions with AI evaluations.

Interactive Simulation Scenarios:

- AI scenarios showcasing the development of a new cosmetic product or addressing a dermatological issue.
- Simulate the formulation of a cosmetic product addressing specific skin concerns using EON Interact.

Incident Simulation:

- Address real-world challenges like allergic reactions or product recalls.
- Explore solutions and understand the reasons behind such incidents in the cosmetic world.

Clinical Pharmacy and Patient Counseling

Navigate the world of clinical pharmacy, understanding the crucial role pharmacists play in patient care. Through augmented reality, witness patient consultations, drug dispensations, and the power of effective counseling.

Knowledge Portal with Floating Annotations:

- Hero image depicting a clinical pharmacy setting with a pharmacist and patient.
- 10 floating knowledge portals covering:
    - Role and responsibilities of a clinical pharmacist.
    - Patient-centered care approach.
    - Medication therapy management.
    - Drug dispensing protocols.
    - Patient counseling techniques.
    - Adverse drug reactions and management.
    - Medication adherence and compliance.
    - Multidisciplinary approach in patient care.
    - Case studies in clinical pharmacy.
    - Ethical considerations in patient counseling.

3-D Model Integration:

- Engage with a 3-D model of a pharmacy setup, including drug shelves, consultation areas, and laboratory setups.
- Explore models showcasing drug interactions, molecular structures, and patient-pharmacist interactions.
- Visualize the journey of a patient through the clinical pharmacy process.

Annotations for the 3-D Model:

- Annotations detailing drug molecules, pharmaceutical equipment, and patient consultation protocols.
- IntelliScan identifies potential drug-drug interactions, counseling techniques, and therapeutic drug levels.

Assessment Creation:

- Quizzes on pharmacotherapy, drug dispensation, and patient counseling.
- Analytical tasks asking students to address real-world pharmacy scenarios or drug interactions.

AI Generated Universal Skill Simulator:

- Simulate patient consultations, drug recommendations, and therapy adjustments.
- Witness AI-generated 3-D animations highlighting effective patient counseling and drug management.
- Apply clinical pharmacy knowledge with AI-guided patient simulations.

Interactive Simulation Scenarios:

- AI scenarios involving complex drug regimens, polypharmacy, or challenging patient cases.
- Simulate a day in the life of a clinical pharmacist using EON Interact.

Incident Simulation:

- Address challenges like drug recalls, medication errors, or difficult patient interactions.
- Strategize and comprehend the underlying causes and resolutions for these scenarios.

Faculty of Teacher Education

Education and Pedagogy

Virtual Classroom Management Techniques

Navigate the realm of virtual classrooms and discover effective management techniques with the EON AI Assistant. Gain insights into creating interactive and engaging learning environments and maintaining a productive virtual atmosphere.

Knowledge Portal with Floating Annotations:

- Display a hero image of a thriving virtual classroom environment.

- 10 floating knowledge portals focusing on:
    - Setting up a virtual classroom.
    - Engagement strategies online.
    - Virtual classroom tools and software.
    - Behavior management in a digital setting.
    - Feedback mechanisms.
    - Online etiquette and norms.
    - Time management techniques.
    - Student participation encouragement.
    - Assessments in a virtual environment.
    - Collaborative tools and practices online.

3-D Model Integration:

- Explore a 3-D representation of a well-structured virtual classroom setup.
- View 3-D models of different virtual classroom software interfaces.
- Opportunity to customize and design a personal virtual classroom space.

Annotations for the 3-D Model:

- Annotations detailing features of virtual classroom tools.
- IntelliScan highlighting potential classroom disruptions and solutions.

Assessment Creation:

- Quizzes on best practices for virtual classroom management.
- Challenges on scenario-based classroom disruptions and their resolutions.

AI Generated Universal Skill Simulator:

- Engage with standard procedures for effective classroom management.
- Simulate and navigate potential challenges, guided by the AI avatar.

Interactive Simulation Scenarios:

- AI-driven scenarios like a multi-student discussion or a classroom activity.
- Simulate techniques to manage and oversee such activities using EON Interact.

Incident Simulation:

- Handle real-world challenges such as technical glitches or student disputes.
- Explore solutions and mitigation strategies.

Dive into the innovative world of curriculum design in virtual reality (VR). With EON AI Assistant, experience firsthand the transformative power of VR in shaping modern educational curriculums.

Knowledge Portal with Floating Annotations:

- Hero image showcasing an immersive VR educational experience.
- 10 floating knowledge portals diving into:
    - Basics of VR in education.
    - Advantages of VR-based curriculum design.
    - VR tools for educators.
    - Mapping traditional curriculum to VR.
    - Creating immersive lessons.
    - Accessibility and inclusivity in VR.
    - VR safety and guidelines.
    - Feedback and evaluation in VR settings.
    - Future trends in VR curriculum design.
    - Case studies of successful VR curriculums.

3-D Model Integration:

- Visualize a 3-D representation of VR headset and immersive classrooms.
- Explore 3-D models of successful VR curriculum implementations.
- Customize and adapt a personal VR curriculum space.

Annotations for the 3-D Model:

- Descriptions on the mechanics of VR tools.
- IntelliScan to highlight potential curriculum areas ripe for VR adaptation.

Assessment Creation:

- Quizzes on VR tools, curriculum mapping, and immersive lesson creation.
- Scenario-based challenges for adapting traditional lessons to VR.

AI Generated Universal Skill Simulator:

- Design standard VR lessons guided by the AI avatar.
- Navigate and modify existing VR curriculum setups.

Interactive Simulation Scenarios:

- AI-guided scenarios like creating an immersive history lesson or a virtual biology lab.
- Design and execute these using the EON Interact platform.

Incident Simulation:

- Address potential challenges, like technical VR glitches or content suitability.
- Implement solutions to enhance the VR curriculum experience.

Pedagogical Theory and Child Development

Embark on an insightful journey into the realm of pedagogical theory and child development using the EON AI Assistant. Understand foundational theories and witness child development stages in a detailed 3-D environment.

Knowledge Portal with Floating Annotations:

- Hero image portraying iconic educators and developmental stages.
- 10 floating knowledge portals elaborating on:
    - Foundations of pedagogical theory.
    - Key educators and their philosophies.
    - Stages of child development.
    - Cognitive and emotional development.
    - Role of environment in child development.
    - Theories of learning.
    - Modern pedagogical practices.
    - Case studies of effective pedagogy.
    - Role of technology in modern pedagogy.
    - Inclusivity in pedagogical practices.

3-D Model Integration:

- Experience a 3-D representation of various classrooms across history.
- View 3-D models depicting different stages of child development.
- Customize and delve deeper into specific developmental stages or educational philosophies.

Annotations for the 3-D Model:

- Descriptive annotations on child development milestones.
- IntelliScan highlighting key elements in pedagogical theory.

Assessment Creation:

- Quizzes on key educators, child development stages, and learning theories.
- Scenario-based challenges analyzing pedagogical strategies.

AI Generated Universal Skill Simulator:

- Navigate through AI-guided pedagogical setups.
- Analyze and adapt pedagogical strategies using AI feedback.

Interactive Simulation Scenarios:

- AI-guided scenarios like implementing a Montessori setup or navigating a Piagetian classroom.
- Engage and modify these scenarios using EON Interact.

Incident Simulation:

- Address challenges like adapting pedagogy for diverse classrooms.
- Explore solutions and best practices in pedagogical adaptations.

Teaching Methods and Strategies in AR

Elevate your teaching prowess by integrating augmented reality (AR) into your strategies with the EON AI Assistant. Witness the future of education and harness AR to create compelling and engaging learning environments.

Knowledge Portal with Floating Annotations:

- Hero image capturing an active AR-enhanced classroom.
- 10 floating knowledge portals delving into:
    - Introduction to AR in education.
    - Benefits of AR-based teaching.
    - AR tools for educators.
    - Mapping traditional teaching to AR.
    - AR-enhanced lessons and activities.
    - Safety and guidelines in AR classrooms.
    - Collaborative learning in AR.
    - Future of AR in education.
    - Case studies of AR-enhanced teaching.
    - Adaptability and scalability of AR in teaching.

3-D Model Integration:

- Explore 3-D representations of AR classrooms and tools.
- Visualize AR-enhanced lessons across subjects.
- Design and experiment with personal AR teaching scenarios.

Annotations for the 3-D Model:

- Detailed annotations on the functionality of AR tools.
- IntelliScan for highlighting innovative AR teaching methods.

Assessment Creation:

- Quizzes on the functionalities and benefits of AR in teaching.
- Scenario-based challenges for creating AR-enhanced lesson plans.

AI Generated Universal Skill Simulator:

- Design standard AR-enhanced lessons under the guidance of the AI avatar.
- Experiment and adapt various teaching methods in AR.

Interactive Simulation Scenarios:

- AI-led scenarios such as conducting an AR-enhanced history tour or an interactive math lesson.
- Design and execute these teaching scenarios using EON Interact.

Incident Simulation:

- Navigate challenges like ensuring student safety in AR or ensuring AR content accuracy.
- Develop and implement strategies to optimize the AR teaching experience.

Special Education and Inclusive Practices

Dive into the world of special education and inclusive practices with the EON AI Assistant. Learn the principles of inclusivity and discover strategies to provide a tailored educational experience for every student.

Knowledge Portal with Floating Annotations:

- Hero image portraying an inclusive classroom environment.
- 10 floating knowledge portals elaborating on:
    - Basics of special education.
    - Principles of inclusivity in education.
    - Differentiated instruction.
    - Individualized education plans (IEP).
    - Assistive technologies in education.
    - Adapting curriculum for diverse learners.
    - Classroom management for inclusivity.
    - Collaborative practices in inclusive settings.
    - Case studies of inclusive classrooms.
    - Legal and ethical considerations in special education.

3-D Model Integration:

- Experience 3-D representations of diverse classroom setups.
- View 3-D models of assistive technologies.
- Customize and explore various inclusive educational settings.

Annotations for the 3-D Model:

- Annotations detailing the use and benefits of assistive tools.
- IntelliScan for highlighting key aspects of inclusive education.

Assessment Creation:

- Quizzes on principles of special education, inclusive practices, and legal considerations.
- Scenario-based challenges on implementing inclusive teaching strategies.

AI Generated Universal Skill Simulator:

- Navigate AI-guided inclusive classroom setups.
- Experiment with different assistive tools and strategies.

Interactive Simulation Scenarios:

- AI-guided scenarios like setting up a classroom for visually impaired students or implementing differentiated instruction.
- Engage with these scenarios using EON Interact.

Incident Simulation:

- Handle challenges like addressing diverse needs in a classroom or ensuring accessibility.
- Explore solutions and best practices for these challenges.

Faculty of Geotechnical Engineering

Geology and Environmental Science

Earthquake Engineering and Seismology in VR

Immerse yourself in the dynamic world of earthquakes and seismology. Using virtual reality, explore the mechanics behind seismic waves, the design of earthquake-resistant structures, and the science of predicting earthquakes.

Knowledge Portal with Floating Annotations:

- Hero image featuring a seismograph and tectonic plate boundaries.
- 10 floating knowledge portals covering:
    - Introduction to earthquakes and seismic waves.
    - Tectonic plate movements and fault lines.
    - Seismic hazard assessments.
    - Earthquake-resistant architectural designs.
    - Monitoring and early warning systems.
    - Impact of earthquakes on urban areas.
    - Tsunamis and secondary hazards.
    - Seismology equipment and tools.
    - Case studies of major earthquakes.
    - Future predictions and preventive measures.

3-D Model Integration:

- Visualize a 3-D representation of the Earth's layers and seismic waves propagation.
- Explore illustrative models of seismographs, tectonic plates, and earthquake-resistant buildings.
- Opportunity to upload personal seismology data for interactive analysis.

Annotations for the 3-D Model:

- Annotations explaining seismic waves, fault movements, and resistant structural designs.
- IntelliScan feature highlighting seismology tools and earthquake epicenters.

Assessment Creation:

- Quizzes focusing on earthquake causes, seismic wave types, and preventive engineering measures.
- Challenges asking students to interpret seismograph readings or design earthquake-safe structures.

AI Generated Universal Skill Simulator:

- Engage with the processes involved in earthquake prediction and engineering solutions.
- Experience AI-driven animations of tectonic movements, earthquake occurrences, and structural responses.

Interactive Simulation Scenarios:

- AI-identified scenarios of earthquake impacts on urban regions and the role of engineers in mitigation.
- Simulate earthquake predictions and preventive measures using EON Interact.

Incident Simulation:

- Engage with challenges faced during major earthquakes, from structural collapses to tsunami warnings.
- Strategize and design effective responses to these incidents.

Soil Mechanics and Rock Engineering

Dive into the foundational study of soil mechanics and rock engineering. Understand soil behaviors under different conditions, explore rock formations, and learn about geotechnical engineering applications.

Knowledge Portal with Floating Annotations:

- Hero image illustrating soil layers and rock stratifications.
- 10 floating knowledge portals covering:
    - Basics of soil mechanics.
    - Properties and types of soil.

- Rock formations and classifications.
- Soil and rock testing methods.
- Foundations and bearing capacities.
- Slope stability and landslides.
- Earth pressure theories.
- Ground improvement techniques.
- Tunnels and underground structures.
- Geotechnical engineering applications.

3-D Model Integration:

- Explore 3-D models of soil profiles, rock layers, and geotechnical equipment.
- Visualize geotechnical structures such as retaining walls, tunnels, and foundations.

Annotations for the 3-D Model:

- Annotations detailing soil properties, rock types, and geotechnical designs.
- IntelliScan to identify soil layers, rock fractures, and ground improvement methods.

Assessment Creation:

- Quizzes on soil properties, rock classifications, and engineering applications.
- Challenges in soil testing interpretations, rock identification, and geotechnical design.

AI Generated Universal Skill Simulator:

- Engage in standard geotechnical investigations and rock engineering processes.
- AI-driven animations visualizing soil behaviors, rock deformations, and engineering solutions.

Interactive Simulation Scenarios:

- AI scenarios showcasing foundation designs, slope stabilizations, and tunnel excavations.
- Use EON Interact to simulate geotechnical projects and soil-rock interactions.

Incident Simulation:

- Address geotechnical challenges such as slope failures, foundation settlements, or tunnel collapses.
- Strategize and apply engineering principles to resolve these incidents.

Environmental Impact Assessment in AR

Step into the realm of environmental studies and discover the importance of impact assessments. With augmented reality, examine ecosystems, understand human interventions, and assess the environmental repercussions of various projects.

Knowledge Portal with Floating Annotations:

- Hero image depicting an ecosystem with highlighted human interventions.
- 10 floating knowledge portals discussing:
    - Principles of Environmental Impact Assessment (EIA).
    - Importance of EIA in project planning.
    - Baseline data collection methods.
    - Identifying significant environmental impacts.
    - Mitigation measures and strategies.
    - EIA report preparation and review.
    - Legal frameworks and guidelines.
    - Public participation in EIA.
    - Case studies of major EIAs.
    - Future trends in environmental assessments.

3-D Model Integration:

- Experience AR models of ecosystems, human developments, and potential impacts.
- Explore illustrative models like deforestation sites, industrial areas, and wildlife habitats.

Annotations for the 3-D Model:

- Annotations explaining environmental parameters, impacts, and mitigation measures.
- IntelliScan highlighting key areas of concern in EIAs.

Assessment Creation:

- Quizzes on EIA principles, methodologies, and case studies.
- Challenges in assessing environmental impacts and proposing mitigation measures.

AI Generated Universal Skill Simulator:

- Engage with the EIA process, from baseline data collection to report submission.
- Experience AI-driven animations showcasing potential environmental impacts and their assessments.

Interactive Simulation Scenarios:

- AI scenarios highlighting various development projects and their environmental implications.
- Simulate EIA processes, impact predictions, and mitigation strategies using EON Interact.

Incident Simulation:

- Engage with environmental challenges posed by projects, such as habitat loss or water pollution.
- Strategize and propose environmentally-friendly solutions to these challenges.

Hydrogeology and Water Resources

Traverse the interconnected domains of hydrogeology and water resources. Learn about groundwater movements, aquifer systems, water conservation, and the challenges facing our precious water resources.

Knowledge Portal with Floating Annotations:

- Hero image showcasing a water cycle with emphasis on groundwater and aquifers.
- 10 floating knowledge portals highlighting:
    - Basics of hydrogeology.
    - Groundwater movements and aquifers.
    - Surface water and groundwater interactions.
    - Water resource management principles.
    - Water conservation techniques.
    - Hydrogeological investigations and tools.
    - Water quality and contamination.
    - Groundwater modeling and predictions.
    - Case studies of major water resource projects.
    - Future challenges in water resource management.

3-D Model Integration:

- Dive into 3-D visualizations of groundwater flow, aquifer structures, and water resource infrastructures.
- Explore models like wells, dams, and watershed areas.

Annotations for the 3-D Model:

- Annotations detailing groundwater flow mechanisms, aquifer types, and water resource technologies.
- IntelliScan identifying key hydrogeological parameters and water management techniques.

Assessment Creation:

- Quizzes on hydrogeological principles, water resource challenges, and management strategies.
- Challenges to interpret groundwater data, predict water flow, or design water conservation plans.

AI Generated Universal Skill Simulator:

- Engage in hydrogeological investigations and water resource management scenarios.
- AI-driven animations visualizing groundwater movements, aquifer recharge, and water supply projects.

Interactive Simulation Scenarios:

- AI scenarios showcasing water scarcity issues, aquifer depletions, and conservation efforts.
- Use EON Interact to simulate water resource management tasks and challenges.

Incident Simulation:

- Address water-related challenges such as droughts, over-extraction, or contamination.
- Strategize and devise solutions to manage and conserve our vital water resources.

Navigate the intricate world of geoengineering and its pivotal role in infrastructure design. Grasp the geotechnical aspects of infrastructure projects and learn about the engineering solutions that ensure structural safety and longevity.

Knowledge Portal with Floating Annotations:

- Hero image depicting a blend of geotechnical investigations and infrastructure blueprints.
- 10 floating knowledge portals emphasizing:
    - Foundations of geoengineering.
    - Soil investigations and geotechnical reports.
    - Infrastructure planning and design considerations.
    - Geosynthetics and ground reinforcement techniques.
    - Structural analysis and design.
    - Earth retaining structures and excavations.
    - Geohazards and mitigation measures.
    - Sustainable infrastructure and green designs.
    - Case studies of iconic infrastructure projects.
    - Technological advancements in geoengineering.

3-D Model Integration:

- Visualize 3-D representations of geoengineering tools, infrastructure designs, and ground reinforcement methods.
- Explore models of bridges, tunnels, and high-rise buildings from a geotechnical perspective.

Annotations for the 3-D Model:

- Annotations elaborating on geotechnical parameters, infrastructure designs, and geohazard considerations.
- IntelliScan highlighting key geoengineering techniques and sustainable infrastructure strategies.

Assessment Creation:

- Quizzes focused on geoengineering principles, infrastructure design criteria, and geohazard mitigation.
- Challenges in geotechnical report interpretations, structural design, and geohazard assessments.

AI Generated Universal Skill Simulator:

- Engage in geoengineering tasks related to infrastructure planning, design, and analysis.
- AI-driven animations showcasing ground investigations, structural responses, and geohazard simulations.

Interactive Simulation Scenarios:

- AI scenarios delving into the challenges of infrastructure design in various terrains and geological settings.
- Use EON Interact to simulate geoengineering solutions and infrastructure optimization tasks.

Incident Simulation:

- Engage with geoengineering challenges like foundation failures, geohazard occurrences, or infrastructure collapses.
- Strategize and apply geoengineering principles to ensure infrastructure safety and sustainability.

Faculty of Geodesy

Surveying and Land Management

Topographic Surveying in VR

Immerse yourself in the realm of topographic surveying, experiencing virtual terrains, contours, and elevations like never before with EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Hero image showcasing surveyors at work in diverse terrains.
- 10 floating knowledge portals detailing:
    - Introduction to topographic surveying.
    - Types of topographic surveys.
    - Instruments used in surveying.
    - Reading and interpreting contour maps.
    - Methods of data collection.
    - Applications of topographic surveys.
    - Role of technology in modern surveying.
    - Challenges faced during surveying.

- Accuracy and precision in surveying.
- Future trends in topographic surveying.

3-D Model Integration:

- Navigate a 3-D virtual terrain, understanding various landforms and elevations.
- Explore models of surveying equipment like theodolites, total stations, and laser scanners.
- Option to upload personal survey data for a VR interpretation.

Annotations for the 3-D Model:

- Annotations explaining the nuances of different landforms, survey techniques, and equipment functionalities.
- IntelliScan to highlight elevations, gradients, and other topographic features.

Assessment Creation:

- Quizzes on basic principles of topography, equipment identification, and interpretation of survey results.
- Challenges to recognize specific landforms or determine the elevation of given points.

AI Generated Universal Skill Simulator:

- Engage in standard surveying procedures and techniques.
- Simulated VR experiences of conducting a topographic survey, collecting data, and interpreting results.
- Practicals involving setting up surveying instruments and capturing accurate readings.

Interactive Simulation Scenarios:

- AI-generated scenarios such as surveying a challenging terrain or creating a contour map.
- Simulate the process of collecting and plotting data points using EON Interact.

Incident Simulation:

- Tackle common issues in surveying like instrument malfunctions, data discrepancies, or challenging environmental conditions.
- Find solutions to ensure accurate and reliable survey results.

Dive into the world of GIS, overlaying spatial data on real-world environments using Augmented Reality, facilitated by the EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Hero image depicting a GIS analyst working on spatial data.
- 10 floating knowledge portals exploring:
    - Basics of GIS.
    - Components of a GIS.
    - Spatial and non-spatial data.
    - Types of GIS applications.
    - Layers and their significance.
    - Remote data acquisition in GIS.
    - Data visualization techniques.
    - GIS in urban planning and environmental management.
    - Challenges in GIS.
    - Future of GIS.

3-D Model Integration:

- Interact with a 3-D virtual cityscape or natural environment, overlaying GIS data.
- Illustrative models of GIS software interfaces, satellite imagery, and data visualizations.
- Opportunity to overlay personal GIS data on a 3-D model of a selected environment.

Annotations for the 3-D Model:

- Annotations highlighting data layers, spatial relationships, and points of interest.
- IntelliScan to identify specific features or regions within the GIS data.

Assessment Creation:

- Quizzes on GIS principles, data interpretation, and application of GIS in various sectors.
- Challenges to interpret spatial data or determine the implications of certain GIS analyses.

AI Generated Universal Skill Simulator:

- Engage with typical GIS tasks like data layering, spatial analysis, and visualization.

- AI-generated AR experiences showcasing how GIS data influences decision-making in fields like urban planning or environmental conservation.

Interactive Simulation Scenarios:

- AI scenarios such as analyzing urban sprawl using GIS or assessing deforestation rates.
- Use EON Interact to manipulate GIS layers, adjust data parameters, and visualize outcomes.

Incident Simulation:

- Address challenges in GIS like data inconsistencies, software glitches, or misinterpretation of spatial relationships.
- Navigate these challenges to ensure accurate GIS analyses.

Remote Sensing and Satellite Imagery

Delve into the expansive domain of remote sensing and satellite imagery using the advanced features of the EON AI Assistant. From understanding the mechanisms of satellites to visualizing earth's terrains in augmented reality, uncover the marvels of space-borne observation.

Knowledge Portal with Floating Annotations:

- Hero image of a satellite in orbit capturing detailed imagery of Earth's surface.
- 10 floating knowledge portals addressing:
    - Basics of remote sensing.
    - Evolution of satellite technologies.
    - Different types of satellites and their purposes.
    - Techniques of capturing and analyzing imagery.
    - Ground stations and data relay.
    - Influence of weather on imagery.
    - Satellite imaging in disaster management.
    - Commercial applications of satellite imagery.
    - National and international space programs.
    - Future of satellite remote sensing.

3-D Model Integration:

- Experience a 3-D model of satellite orbits, ground stations, and various types of satellites.
- Explore illustrative examples of satellite components, antennae, and sensors.

- Opportunity to interact with real satellite imagery and enhance understanding.

Annotations for the 3-D Model:

- Annotations highlighting satellite parts, orbital paths, and communication links.
- IntelliScan feature to identify various landforms, water bodies, and atmospheric phenomena in imagery.

Assessment Creation:

- Quizzes focused on satellite types, imagery analysis, and the science behind remote sensing.
- Interactive challenges to interpret satellite imagery or predict satellite paths.

AI Generated Universal Skill Simulator:

- Engage with standard processes of satellite launch, positioning, and data collection.
- AI-generated 3-D animations demonstrate satellite maneuvers and image capturing techniques.
- Analyze and interpret remote sensing data, receiving AI-based feedback on interpretations.

Interactive Simulation Scenarios:

- AI-identified scenarios like satellite launches, ground station communications, or image processing labs.
- Simulate satellite image analyses and uncover patterns using EON Interact.

Incident Simulation:

- Address challenges such as satellite malfunctions, image distortions, or communication interruptions.
- Resolve satellite-related incidents, understanding recovery and backup processes.

Land Management and Property Rights

Engage with the multi-faceted world of land management and property rights through the EON AI Assistant. Unravel the intricacies of land ownership, rights, and the impact on communities and the environment.

Knowledge Portal with Floating Annotations:

- Hero image showcasing a blend of urban and rural landscapes.
- 10 floating knowledge portals discussing:
    - History of land rights and ownership.
    - Different land tenure systems globally.
    - Land registration and documentation processes.
    - Land disputes and their resolutions.
    - Sustainable land management practices.
    - Urban planning and zoning regulations.
    - Impact of land rights on indigenous communities.
    - Environmental considerations in land management.
    - Property taxation and valuation.
    - Technological advancements in land record management.

3-D Model Integration:

- 3-D models of urban landscapes, rural farmlands, and land documentation processes.
- Illustrative examples of cadastral maps, land registry offices, and land use scenarios.
- Interaction with 3-D models to understand zoning laws, land divisions, and more.

Annotations for the 3-D Model:

- Descriptive annotations on urban infrastructures, farmland types, and cadastral boundaries.
- IntelliScan features identifying different land use patterns and associated regulations.

Assessment Creation:

- Quizzes on land rights history, property laws, and sustainable land management practices.
- Activities challenging students to draft land management plans or solve hypothetical property disputes.

AI Generated Universal Skill Simulator:

- Engage with the standard processes of land registration, documentation, and zoning.
- AI-guided 3-D animations showcase land management practices, dispute resolutions, and urban planning.

Interactive Simulation Scenarios:

- AI-driven scenarios such as land auctions, urban planning meetings, or sustainable farming practices.
- Engage in simulations of managing a city's growth or ensuring rights for indigenous communities using EON Interact.

Incident Simulation:

- Engage with challenges like land encroachments, property disputes, or environmental impacts.
- Formulate resolutions to these incidents and explore best practices in land management.

Geospatial Data Analysis and Modeling

Navigate the dynamic field of geospatial data analysis and modeling with the EON AI Assistant. Understand the significance of spatial data, explore mapping technologies, and create detailed geographical models.

Knowledge Portal with Floating Annotations:

- Hero image of a digital globe with layered geospatial data.
- 10 floating knowledge portals highlighting:
    - Introduction to geospatial data and its sources.
    - Basics of Geographic Information Systems (GIS).
    - Remote sensing in geospatial data collection.
    - Digital terrain and elevation models.
    - Geospatial data analytics tools and software.
    - Predictive modeling using spatial data.
    - Role of geospatial data in urban planning and environmental studies.
    - Mapping technologies and their evolution.
    - Integration of IoT with geospatial data.
    - Future trends in geospatial analysis.

3-D Model Integration:

- Experience 3-D models of geographical terrains, urban layouts, and layered maps.
- Explore illustrative examples of geospatial tools, GIS platforms, and predictive models.

- Engage with real-time geospatial data and its implications on urban development and environmental conservation.

Annotations for the 3-D Model:

- Annotations detailing map layers, terrain types, and spatial data sources.
- IntelliScan to identify geographical patterns, anomalies, and modeling outputs.

Assessment Creation:

- Quizzes on GIS basics, terrain modeling, and geospatial data analysis techniques.
- Analytical challenges to interpret geospatial datasets or predict patterns using given spatial data.

AI Generated Universal Skill Simulator:

- Engage with standard processes of GIS mapping, geospatial data collection, and predictive modeling.
- AI-guided 3-D animations illustrate data overlay, spatial analytics, and terrain modeling.
- Engage in geospatial projects, receiving AI assessments on data interpretation and model accuracy.

Interactive Simulation Scenarios:

- AI-driven scenarios like urban development planning, environmental impact assessment, or flood prediction.
- Simulate geospatial analyses to address challenges like urban sprawl or deforestation using EON Interact.

Incident Simulation:

- Address challenges such as data inaccuracies, modeling errors, or geospatial tool malfunctions.
- Formulate strategies to rectify these incidents and ensure accurate geospatial outputs.

Faculty of Textile Technology

Textile Engineering and Design

Textile Manufacturing Processes in VR

Embark on a virtual reality journey to explore the intricate world of textile manufacturing processes. Delve into the steps from raw material to finished product, enhanced with immersive VR experiences.

Knowledge Portal with Floating Annotations:

- Hero image displaying a bustling textile factory.
- 10 floating knowledge portals covering:
    - Introduction to textile manufacturing.
    - Spinning: converting fiber to yarn.
    - Weaving and knitting.
    - Non-woven textile production.
    - Factory machinery and equipment.
    - Quality control in textile manufacturing.
    - Automation in modern factories.
    - Textile treatments and enhancements.
    - The journey from fiber to fabric.
    - Future trends in textile manufacturing.

3-D Model Integration:

- Explore a virtual textile factory, including spinning wheels, looms, and finishing machines.
- Zoom into details like fiber textures, woven fabrics, and factory assembly lines.

Annotations for the 3-D Model:

- Annotations detailing machinery parts, weaving patterns, and textile treatments.
- IntelliScan feature identifies fabric types, machinery functionalities, and manufacturing stages.

Assessment Creation:

- Quizzes on machinery identification, manufacturing stages, and textile treatments.
- Challenges involving sequence textile processes or identifying defects in fabrics.

AI Generated Universal Skill Simulator:

- Engage with standard textile manufacturing procedures.
- Experience AI animations of spinning, weaving, and finishing processes.
- Attempt fabric weaving and assess quality with AI feedback.

Interactive Simulation Scenarios:

- AI-identified scenarios like a day at the factory or machinery troubleshooting.
- Simulate manufacturing sequences and understand textile production intricacies.

Incident Simulation:

- Address common manufacturing challenges like machinery breakdowns or quality issues.
- Strategize solutions and understand best practices in textile manufacturing.

Apparel Design and Fashion Technology

Delve into the fusion of traditional apparel design with cutting-edge fashion technology. From sketches to wearable tech, experience the evolution of fashion in augmented reality.

Knowledge Portal with Floating Annotations:

- Hero image of a fashion designer at work, surrounded by sketches and tech tools.
- 10 floating knowledge portals:
    - Basics of apparel design.
    - Tools and software for fashion designing.
    - Evolution of fashion technology.
    - Wearable technology in fashion.
    - Case studies of iconic fashion tech pieces.
    - The future of smart apparel.
    - Integration of sustainable practices in design.
    - Virtual fashion shows and digital runways.
    - User customization and personalization in fashion.
    - Augmented reality in fashion shopping.

3-D Model Integration:

- Explore a virtual fashion studio, including mannequins, sketches, and wearable tech items.
- Experience iconic fashion pieces in 3-D and understand their design intricacies.

Annotations for the 3-D Model:

- Detailed annotations on design principles, technology integrations, and sustainability efforts.
- IntelliScan highlights fashion tech components, design techniques, and materials used.

Assessment Creation:

- Quizzes on design principles, fashion tech trends, and sustainable practices.
- Challenges involving designing a piece of apparel or identifying technology in fashion items.

AI Generated Universal Skill Simulator:

- Engage in standard design processes, from sketch to final product.
- Experience AI animations guiding through design techniques and technology integrations.
- Design a fashion piece and receive AI feedback on aesthetics and functionality.

Interactive Simulation Scenarios:

- AI-driven scenarios of a fashion tech brainstorm or sustainable design planning.
- Simulate the design of a smart apparel piece, integrating technology and fashion seamlessly.

Incident Simulation:

- Address challenges like tech malfunctions in wearable fashion or design inconsistencies.
- Strategize solutions and understand best practices in fashion tech design.

Textile Materials and Fiber Science in AR

Experience an augmented reality exploration into the heart of textile materials and fiber science. Understand fibers at a molecular level and their impact on the textiles we use daily.

Knowledge Portal with Floating Annotations:

- Hero image showcasing various fibers – natural and synthetic.
- 10 floating knowledge portals:
    - Introduction to fiber science.
    - Natural fibers: cotton, wool, silk, and more.
    - Synthetic fibers: polyester, nylon, rayon, and others.
    - The molecular structure of fibers.
    - Properties and uses of various fibers.
    - Fiber processing and treatments.
    - Innovations in fiber technology.
    - Biodegradable and sustainable fibers.
    - Future trends in fiber science.
    - Impact of fibers on fabric properties.

3-D Model Integration:

- Delve into AR models of fibers, seeing their structure and properties.
- Zoom into detailed 3-D representations of molecular structures and fiber cross-sections.

Annotations for the 3-D Model:

- Annotations detailing fiber types, molecular compositions, and unique properties.
- IntelliScan identifies fiber types, their uses, and their impact on textile properties.

Assessment Creation:

- Quizzes on fiber types, their properties, and their applications.
- Challenges to identify fibers based on their molecular structures or properties.

AI Generated Universal Skill Simulator:

- Engage with fiber processing techniques and understand their properties.
- AI animations demonstrate fiber extraction, processing, and application in textiles.
- Experiment with fiber combinations and understand their impact on fabric qualities with AI assessments.

Interactive Simulation Scenarios:

- AI-driven scenarios like a lab experiment on fiber properties or sustainable fiber production.

- Simulate the journey from raw fiber to a usable textile, understanding each step in detail.

Incident Simulation:

- Address challenges like deteriorating fiber quality or issues in fiber processing.
- Strategize solutions and understand best practices in fiber science.

Dyeing, Printing, and Finishing Techniques

Delve into the vibrant world of textile coloration and finishing. Understand the art and science behind dyeing, printing, and the final touches that bring textiles to life.

Knowledge Portal with Floating Annotations:

- Hero image of colorful dyed fabrics and intricate prints.
- 10 floating knowledge portals:
    - Basics of textile dyeing.
    - Types of dyes and their applications.
    - Textile printing techniques.
    - Traditional vs. digital printing.
    - Finishing techniques for textiles.
    - Enhancements and treatments post-dyeing.
    - Innovations in eco-friendly dyeing.
    - Future trends in textile coloration.
    - Importance of finishing in textile lifespan.
    - Case studies of iconic prints and dyes.

3-D Model Integration:

- Experience a virtual dyeing and printing workshop, including vats, screens, and finished textiles.
- Dive deep into 3-D representations of dye molecules, printing techniques, and fabric finishes.

Annotations for the 3-D Model:

- Annotations detailing dye types, printing methodologies, and finishing treatments.
- IntelliScan to highlight different dye molecules, print patterns, and the impact of finishes on textiles.

Assessment Creation:

- Quizzes on dye types, printing methods, and finishing techniques.
- Challenges involving identifying dyes based on their molecular structure or print patterns based on techniques.

AI Generated Universal Skill Simulator:

- Engage in the dyeing process, from choosing dyes to the final coloration.
- Experience AI animations showcasing printing methods and finishing touches.
- Create a printed fabric design and receive AI feedback on aesthetics and technique.

Interactive Simulation Scenarios:

- AI-driven scenarios of a dyeing session or a textile printing workshop.
- Simulate the process of bringing color and life to textiles through dyes, prints, and finishes.

Incident Simulation:

- Address challenges like color bleeding, print inconsistencies, or finishing defects.
- Strategize solutions and understand best practices in dyeing, printing, and finishing.

Sustainable Textiles and Recycling

Embark on a journey into the future of textiles – sustainable and recyclable. Explore the innovations driving eco-friendly textiles and the recycling processes shaping the industry.

Knowledge Portal with Floating Annotations:

- Hero image showcasing recycled fabrics and sustainable textiles.
- 10 floating knowledge portals:
    - The need for sustainable textiles.
    - Eco-friendly materials in textiles.
    - Innovations in sustainable fiber production.
    - Textile recycling processes.
    - Case studies of sustainable fashion brands.
    - The future of textiles in a green world.
    - Biodegradable textiles and their impact.

- Circular economy in the textile industry.
- Reducing textile waste and its importance.
- Environmental impact of textiles and mitigation.

3-D Model Integration:

- Explore a virtual sustainable textile factory, showcasing recycled fibers, sustainable fabrics, and green practices.
- Experience 3-D representations of recycling processes, from textile waste to renewed fibers.

Annotations for the 3-D Model:

- Annotations detailing sustainable materials, recycling stages, and environmental benefits.
- IntelliScan identifies eco-friendly fibers, recycling machinery, and sustainable practices in textile production.

Assessment Creation:

- Quizzes on sustainable fibers, textile recycling, and eco-friendly practices.
- Challenges identifying sustainable materials or assessing the environmental impact of textiles.

AI Generated Universal Skill Simulator:

- Engage with sustainable textile production and recycling processes.
- AI animations showcase the journey from textile waste to renewed fabric.
- Experiment with recycling methods and understand their impact on the environment with AI feedback.

Interactive Simulation Scenarios:

- AI-driven scenarios of a green textile factory or a textile recycling plant.
- Simulate sustainable textile production, understanding the processes and benefits at each step.

Incident Simulation:

- Address challenges like inefficient recycling or environmental hazards in textile production.
- Strategize solutions and understand best practices in sustainable textiles and recycling.

Faculty of Chemical Engineering and Food Technology

Chemical Processes and Food Science

Chemical Reaction Engineering in VR

Immerse yourself in the dynamic field of chemical reaction engineering with the aid of virtual reality. Understand the intricacies of chemical reactions, reactor design, and kinetics, all presented in an interactive VR environment.

Knowledge Portal with Floating Annotations:

- Hero image displaying a vibrant chemical reaction in progress.
- 10 floating knowledge portals covering:
    - Introduction to chemical reactions.
    - Basics of reaction kinetics.
    - Catalysts and their roles.
    - Reactor design principles.
    - Batch, plug flow, and CSTR reactors.
    - Heat and mass transfer in reactions.
    - Non-ideal reactor models.
    - Reaction thermodynamics.
    - Safety in chemical reactions.
    - Applications in industries.

3-D Model Integration:

- Explore a 3-D virtual chemical plant with reactors, pipelines, and control rooms.
- Illustrative models of different reactor types and lab equipment.
- Opportunity to simulate personal chemical reactions in VR.

Annotations for the 3-D Model:

- Detailed explanations about reactor components, chemical molecules, and reaction pathways.
- IntelliScan feature for real-time chemical compound recognition and analysis.

Assessment Creation:

- Quizzes on chemical kinetics, reactor types, and safety protocols.

- Challenges to design optimal reaction pathways and analyze reaction efficiencies.

AI Generated Universal Skill Simulator:

- Engage with standard processes of chemical reaction engineering.
- Watch AI-driven animations of chemical reactions in various reactors.
- Test and improve reaction pathways with AI feedback.

Interactive Simulation Scenarios:

- Experience AI-identified scenarios of industrial chemical processes.
- Simulate reactor operations and optimize reaction conditions using EON Interact.

Incident Simulation:

- Encounter challenges like unwanted side reactions or reactor malfunctions.
- Strategize and address these issues through interactive scenarios.

Food Microbiology and Safety

Dive into the microscopic world of food with a focus on microbiology and safety. Learn about pathogens, spoilage, and foodborne illnesses, and engage with AI-driven simulations to ensure food safety at every step.

Knowledge Portal with Floating Annotations:

- Hero image showcasing a magnified view of microbes on food.
- 10 floating knowledge portals covering:
    - Basics of food microbiology.
    - Common pathogens and their sources.
    - Spoilage organisms and their prevention.
    - Food preservation techniques.
    - Fermentation and beneficial microbes.
    - Foodborne illnesses and prevention.
    - Microbiological testing methods.
    - Food safety regulations and standards.
    - Role of hygiene in food safety.
    - Technological advancements in food microbiology.

3-D Model Integration:

- A 3-D virtual microbiological lab with microscopes, petri dishes, and sample foods.
- Models of various pathogens, beneficial microbes, and testing equipment.
- Simulate microbiological tests and view results in real-time VR.

Annotations for the 3-D Model:

- Descriptions about microbes, lab equipment functionalities, and safety measures.
- IntelliScan to identify different microorganisms and assess food safety levels.

Assessment Creation:

- Quizzes on microbiological concepts, food preservation, and safety protocols.
- Challenges to identify pathogens or design safe food storage systems.

AI Generated Universal Skill Simulator:

- Interact with standard processes of food testing and safety protocols.
- Engage with AI-driven animations showcasing microbial growth, food spoilage, and preservation methods.
- Analyze and ensure food safety with AI assessments.

Interactive Simulation Scenarios:

- AI-driven scenarios like a food testing lab, fermentation processes, or food storage setups.
- Simulate microbiological tests and analyze results using EON Interact.

Incident Simulation:

- Address challenges like foodborne outbreaks, spoilage incidents, or hygiene breaches.
- Learn to tackle these scenarios effectively with best practices.

Process Control and Automation in AR

Step into the future of industrial processes with augmented reality-driven control and automation. Grasp the core principles of automation, control systems, and real-time process adjustments in an interactive AR setting.

Knowledge Portal with Floating Annotations:

- Hero image featuring a state-of-the-art automated factory floor.
- 10 floating knowledge portals covering:
    - Introduction to process control.
    - Basics of automation systems.
    - Sensors and feedback loops.
    - Programmable logic controllers (PLCs).
    - Distributed control systems (DCS).
    - Robotics in automation.
    - Real-time process adjustments.
    - Safety in automated systems.
    - Energy efficiency in automation.
    - Industry 4.0 and the future of automation.

3-D Model Integration:

- Experience an AR overlay of a modern factory with automated machinery and control systems.
- Models of sensors, PLCs, robotic arms, and control panels.
- Simulate automated processes and control adjustments in real time.

Annotations for the 3-D Model:

- Explanations about machinery components, automation principles, and system architectures.
- IntelliScan feature for real-time machinery status, error detection, and efficiency assessments.

Assessment Creation:

- Quizzes on automation concepts, control system design, and safety protocols.
- Challenges to design optimal control strategies or troubleshoot system errors.

AI Generated Universal Skill Simulator:

- Engage with standard automation processes and control setups.
- Witness AI-driven animations of real-time process controls, error corrections, and automated sequences.
- Test and design automation strategies with AI feedback.

Interactive Simulation Scenarios:

- AI-identified scenarios showcasing factory floor operations, robotics tasks, or system calibrations.

- Simulate control adjustments, system tuning, and performance checks using EON Interact.

Incident Simulation:

- Address challenges like system malfunctions, inefficient sequences, or automation errors.
- Learn to tackle these scenarios with real-time problem-solving strategies.

Food Processing and Packaging Technologies

Delve into the intricate processes behind food preservation, processing, and packaging. The EON AI Assistant brings to life the technologies that ensure our food remains fresh, nutritious, and ready for consumption.

Knowledge Portal with Floating Annotations:

- Hero image featuring a bustling food processing factory floor.
- 10 floating knowledge portals covering:
    - Introduction to food processing.
    - Principles of food preservation.
    - Modern food packaging materials.
    - Machinery used in food processing.
    - Safety standards and hygiene protocols.
    - Sustainability in food packaging.
    - Quality control in food processing.
    - Impact of packaging on food shelf life.
    - Innovations in eco-friendly packaging.
    - Global trends and consumer preferences.

3-D Model Integration:

- Explore a 3-D model of a food processing unit, from raw material intake to packaged product.
- Detailed models of packaging machines, conveyors, and automated sorting systems.
- Opportunity to upload and study personal designs of innovative packaging concepts.

Annotations for the 3-D Model:

- Descriptions highlighting the functionality of various machines and the significance of different packaging materials.
- IntelliScan feature identifying and explaining specific food processing techniques and packaging innovations.

Assessment Creation:

- Quizzes on food preservation techniques, packaging materials, and machinery functionalities.
- Challenges to design innovative food packaging or identify issues in food processing scenarios.

AI Generated Universal Skill Simulator:

- Interactive sessions on standard food processing and packaging procedures.
- AI-driven 3-D animations showcasing the journey of food from farm to table, emphasizing processing and packaging stages.
- Simulated practice sessions on machinery operations and quality control.

Interactive Simulation Scenarios:

- Experience AI-constructed scenarios like a product recall due to packaging faults or the launch of a new food product.
- Design and test new packaging prototypes using EON Interact.

Incident Simulation:

- Face challenges like contamination issues in food processing or packaging material shortages.
- Strategize solutions and improve quality assurance measures.

Biotechnological Processes in Food Production

Venture into the scientific realm where biotechnology meets food production. Understand how genetic engineering, fermentation, and other biotechnological methods are revolutionizing our food industry.

Knowledge Portal with Floating Annotations:

- A hero image showcasing a biotech lab with microscopes, petri dishes, and DNA structures.

- 10 floating knowledge portals featuring:
    - Basics of biotechnology in food.
    - Genetic engineering in crop improvement.
    - Fermentation processes and food products.
    - Enzyme technology in food processing.
    - Production of food additives through biotech.
    - Nutraceuticals and functional foods.
    - Safety and ethics in biotech food production.
    - Role of microorganisms in food biotechnology.
    - Biotechnological solutions for food waste.
    - Future trends in food biotechnology.

3-D Model Integration:

- Interactive 3-D representation of a biotech lab, molecular structures of modified foods, and fermentation tanks.
- Detailed visualization of genetic modifications, enzyme reactions, and fermentation processes.
- Opportunity to input and analyze genetic sequences related to food crops.

Annotations for the 3-D Model:

- Detailed insights into DNA modifications, microbial actions, and biotech equipment functions.
- IntelliScan recognizing and detailing various biotechnological methods and their impact on food.

Assessment Creation:

- Quizzes on genetic engineering, the role of enzymes, and biotechnological innovations.
- Challenges to design improved food crops or troubleshoot fermentation issues.

AI Generated Universal Skill Simulator:

- Engage in standard biotechnological processes used in food production.
- AI-rendered 3-D animations demonstrating genetic crop improvement or fermentation processes.
- Practical sessions on designing biotech experiments for food innovations.

Interactive Simulation Scenarios:

- AI-generated scenarios like developing a new genetically modified crop or optimizing a fermentation process.
- Simulate genetic modifications or microbial interactions using EON Interact.

Incident Simulation:

- Address potential issues like unexpected genetic mutations or fermentation failures.
- Develop strategies for efficient and safe biotechnological processes in food production.

Faculty of Organization and Informatics

Information Systems and Management

Virtual Business Process Modeling

Learn the art of business process modeling within a virtual environment, using the EON AI Assistant. Dive into workflow diagrams, process optimizations, and performance metrics in an immersive experience.

Knowledge Portal with Floating Annotations:

- Display a hero image of a flowchart or business model canvas.
- 10 floating knowledge portals encompassing:
    - Introduction to business process modeling.
    - Importance of workflows in organizations.
    - Tools for business process mapping.
    - Understanding key performance indicators.
    - Process optimization techniques.
    - Role of stakeholders in BPM.
    - Case studies of successful BPM implementations.
    - Common pitfalls and challenges.
    - Future trends in BPM.
    - Virtual tools for collaborative BPM.

3-D Model Integration:

- Engage with a 3-D virtual office space where processes unfold in real-time.
- Examine illustrative models like flowcharts, BPMN diagrams, and org charts.
- Upload and visualize personal business processes in the 3-D space.

Annotations for the 3-D Model:

- Annotations detailing flowchart symbols, BPM terminologies, and stakeholder roles.
- IntelliScan to recognize various process steps, decision points, and process interdependencies.

Assessment Creation:

- Quizzes on BPM theories, methodologies, and best practices.
- Challenges to sequence process steps or identify bottlenecks in workflows.

AI Generated Universal Skill Simulator:

- Engage in standard BPM tasks such as process mapping and performance monitoring.
- AI-generated animations demonstrate process optimizations and process reengineering examples.
- Model and optimize your processes, receiving feedback from the AI.

Interactive Simulation Scenarios:

- AI-driven scenarios depicting a business process review meeting or a process optimization workshop.
- Simulate stakeholder interviews or process walkthroughs using EON Interact.

Incident Simulation:

- Address common BPM challenges like process bottlenecks, redundant steps, or stakeholder conflicts.
- Learn strategies to troubleshoot and enhance process efficiencies.

Database Systems and Data Warehousing in VR

Immerse yourself in the world of databases and data warehousing, exploring data structures, relationships, and analytics within a virtual reality realm.

Knowledge Portal with Floating Annotations:

- Hero image showcasing a complex database schema or a data warehouse architecture.
- 10 floating knowledge portals covering:
    - Basics of database systems.
    - Introduction to data warehousing.
    - Normalization and denormalization processes.
    - SQL and query optimization.
    - Data extraction, transformation, and loading (ETL) processes.
    - Benefits of data warehousing in businesses.
    - Data modeling and dimensional modeling.
    - Role of big data and data lakes.
    - OLAP and data analytics.
    - Database security and best practices.

3-D Model Integration:

- Navigate a 3-D representation of a database, visualizing tables, relationships, and data flows.
- Examine models of data warehouses, data marts, and ETL pipelines.
- Integrate personal database schemas or data models for a hands-on experience.

Annotations for the 3-D Model:

- Annotations explaining database entities, attributes, relationships, and data warehouse components.
- IntelliScan to detect SQL queries, database anomalies, or data patterns.

Assessment Creation:

- Quizzes on database theories, data warehousing methodologies, and SQL commands.
- Challenges that test your ability to design efficient database schemas or identify issues in data flows.

AI Generated Universal Skill Simulator:

- Engage in standard database tasks like query writing, normalization, and data warehousing processes.
- AI animations illustrate efficient ETL processes, data modeling techniques, and analytics dashboards.
- Design and query your virtual databases, receiving insights from the AI on optimization.

Interactive Simulation Scenarios:

- AI-identified scenarios like a data breach, data recovery, or a business intelligence report generation.
- Simulate data analysis sessions or database optimization exercises using EON Interact.

Incident Simulation:

- Address challenges in databases such as data integrity issues, redundancies, or security breaches.
- Understand and apply best practices to maintain data quality and security.

E-Commerce and Digital Marketing

Delve into the dynamic world of e-commerce and digital marketing. Harness the EON AI Assistant to understand online business models, digital marketing strategies, and e-commerce optimization techniques in an interactive environment.

Knowledge Portal with Floating Annotations:

- Feature a hero image of a bustling online marketplace or a digital marketing campaign poster.
- 10 floating knowledge portals touching on:
    - Introduction to e-commerce business models.
    - Digital marketing strategies and channels.
    - SEO and SEM best practices.
    - Role of social media in e-commerce.
    - Consumer behavior and analytics.
    - E-commerce website design principles.
    - Mobile commerce and app-based marketing.
    - Email marketing and retargeting campaigns.
    - Importance of reviews and feedback in e-commerce.
    - Future trends in digital marketing and e-commerce.

3-D Model Integration:

- Experience a 3-D virtual e-commerce platform, navigating product listings, carts, and checkouts.
- Analyze illustrative models like customer journey maps, digital ad campaigns, and SEO dashboards.
- Integrate and analyze personal e-commerce strategies or digital marketing campaigns.

Annotations for the 3-D Model:

- Annotations breaking down e-commerce processes, digital marketing terminologies, and user behaviors.
- IntelliScan identifies successful marketing strategies, e-commerce best practices, and emerging trends.

Assessment Creation:

- Quizzes on e-commerce platforms, digital marketing tactics, and online consumer psychology.
- Challenges to draft effective digital ads, optimize e-commerce listings, or interpret web analytics.

AI Generated Universal Skill Simulator:

- Simulate e-commerce tasks such as inventory management, customer support, and sales tracking.
- AI animations showcase effective ad placements, SEO tactics, and email marketing campaigns.
- Draft and launch a virtual digital marketing campaign, with AI feedback on reach and effectiveness.

Interactive Simulation Scenarios:

- AI-driven scenarios of an e-commerce flash sale, a viral digital marketing campaign, or a product launch.
- Use EON Interact to simulate SEO optimizations, ad budget allocations, or social media engagements.

Incident Simulation:

- Confront e-commerce challenges like cart abandonment, negative reviews, or digital ad misfires.
- Implement strategies to enhance user experience, drive conversions, and build brand loyalty.

Information Security and Risk Management in AR

Explore the critical domain of information security in the augmented reality (AR) landscape. Using the interactive and immersive capabilities of the EON AI Assistant,

you'll delve deep into risk assessment, threat mitigation, and the future of digital protection in AR environments.

Knowledge Portal with Floating Annotations:

- Display a hero image representing a secured AR environment.
- 10 floating knowledge portals elucidate:
    - Fundamentals of information security.
    - Introduction to AR security challenges.
    - Risk assessment methodologies.
    - Vulnerabilities in AR applications.
    - Encryption and data protection techniques.
    - AR malware and threat landscape.
    - User privacy concerns in AR.
    - Best practices for AR security.
    - Digital identity verification in AR.
    - Future of AR security and trends.

3-D Model Integration:

- Experience a 3-D virtual cybersecurity command center, observing real-time AR security protocols.
- Illustrative examples of secured AR devices, malware models, and digital firewalls.
- Opportunity to upload and analyze personal AR application models for potential vulnerabilities.

Annotations for the 3-D Model:

- Annotations elaborating on command center functionalities, malware types, and encryption techniques.
- IntelliScan feature for in-depth analysis of AR security components.

Assessment Creation:

- Quizzes on AR security protocols, encryption methodologies, and risk management.
- Scenario-based challenges to address hypothetical security breaches in AR environments.

AI Generated Universal Skill Simulator:

- Delve into standard procedures of AR risk assessment and threat mitigation.

- AI-generated 3-D animations showcasing security protocols and real-time threat neutralization in AR.
- Test and enhance your AR security skills with feedback from the AI.

Interactive Simulation Scenarios:

- AI-crafted scenarios illustrating a cyber-attack on an AR platform and its subsequent management.
- Utilize EON Interact to simulate the creation of a secure AR environment.

Incident Simulation:

- AI-driven incident representations of common AR security breaches and data leaks.
- Formulate and deploy strategies to counteract these security incidents.

Human Resource Information Systems

Embark on a comprehensive journey into the world of HR Information Systems (HRIS) with EON AI Assistant. From employee management to payroll systems, dive deep into the integration of human resources with cutting-edge technology.

Knowledge Portal with Floating Annotations:

- Hero image portraying an HRIS dashboard.
- 10 floating knowledge portals detailing:
    - Introduction to HRIS.
    - Benefits and challenges of HRIS.
    - Employee data management in HRIS.
    - Payroll and benefits administration.
    - Talent acquisition and onboarding systems.
    - Training and development modules.
    - Performance appraisal systems.
    - HR analytics and reporting.
    - HRIS software options and vendors.
    - Future trends in HRIS.

3-D Model Integration:

- Experience a 3-D virtual HRIS dashboard, navigating through its many modules.
- Illustrative models like employee databases, payroll calculators, and recruitment interfaces.

- Opportunity to integrate personal HR modules and assess their effectiveness.

Annotations for the 3-D Model:

- Floating annotations explaining dashboard components, data analytics graphs, and HRIS functionalities.
- IntelliScan feature provides insight into the optimization of HRIS processes.

Assessment Creation:

- Quizzes focusing on HRIS functionalities, data management protocols, and HR analytics.
- Real-world scenarios to solve HR challenges using the HRIS platform.

AI Generated Universal Skill Simulator:

- Engage in standard HRIS processes such as payroll processing, talent acquisition, and employee training.
- AI-rendered 3-D animations illustrating the seamless flow of HR tasks through HRIS.
- Practice HRIS operations and get performance assessments from the AI.

Interactive Simulation Scenarios:

- AI-developed scenarios like the roll-out of a new HRIS feature or the onboarding of a large group of employees.
- Use EON Interact to simulate HR strategies and analyze their outcomes.

Incident Simulation:

- AI showcases potential HRIS challenges like system downtimes, data breaches, or employee data inconsistencies.
- Learn to address and manage these incidents efficiently.

Center for Croatian Studies

Croatian Culture and Heritage

Croatian Literature and Culture in VR

Explore the rich tapestry of Croatian literature and culture in an immersive virtual reality environment. Journey through classic Croatian tales, understand cultural nuances, and interact with the literary giants of Croatia.

Knowledge Portal with Floating Annotations:

- Display a hero image showcasing Croatian literary masterpieces and iconic cultural symbols.
- 10 floating knowledge portals offering insights into:
    - The evolution of Croatian literature.
    - Key literary figures and their contributions.
    - Cultural festivals and traditions.
    - Modern literary trends in Croatia.
    - Croatian poetry and prose.
    - The relationship between literature and societal changes.
    - Iconic Croatian literary locations.
    - Croatian literary awards and recognitions.
    - Popular Croatian literary genres.
    - The global influence of Croatian literature.

3-D Model Integration:

- Experience a 3-D replica of a Croatian library or a writer's den, enriched with books, manuscripts, and artifacts.
- Explore models of famous Croatian landmarks mentioned in literature.
- Upload personal reviews or interpretations of Croatian literature for immersive discussions.

Annotations for the 3-D Model:

- Annotations explaining book covers, manuscript origins, and cultural artifacts.
- IntelliScan highlights for key literary techniques and cultural symbols.

Assessment Creation:

- Quizzes about Croatian authors, literary movements, and cultural traditions.

- Challenges to interpret literary excerpts or identify the context of cultural practices.

AI Generated Universal Skill Simulator:

- Engage with the writing processes of famous Croatian authors.
- Witness AI-generated 3-D animations of literary scenes or cultural festivals.
- Interpret literary works and receive AI feedback on comprehension and analysis.

Interactive Simulation Scenarios:

- AI-curated scenarios of a Croatian literary salon or a traditional cultural celebration.
- Engage in a simulated literary debate or experience a cultural event using EON Interact.

Incident Simulation:

- Address controversies in Croatian literature or shifts in cultural practices.
- Delve into these incidents, seeking understanding and perspective.

Croatian History and National Identity

Embark on a time-traveling journey through Croatia's vibrant history. Understand the formation of national identity, witness key historical events, and interact with pivotal figures that shaped Croatia's destiny.

Knowledge Portal with Floating Annotations:

- Display a hero image capturing momentous events in Croatian history.
- 10 floating knowledge portals elucidating:
    - Ancient Croatian civilizations.
    - The Croatian medieval era.
    - Croatia under the Austro-Hungarian Empire.
    - The World Wars and Croatia.
    - Independence and the formation of modern Croatia.
    - Symbols of Croatian national identity.
    - Historical landmarks and their significance.
    - Influential figures in Croatian history.
    - Croatia's role in global history.
    - Evolution of Croatian national pride and identity.

3-D Model Integration:

- Navigate a 3-D representation of a Croatian museum or a historical battlefield.
- Engage with models of iconic historical artifacts or landmarks.
- Contribute personal research or insights into Croatian history for a collaborative learning experience.

Annotations for the 3-D Model:

- Annotations detailing artifacts, historical timelines, and landmark descriptions.
- IntelliScan for deeper insights into historical events and their implications.

Assessment Creation:

- Quizzes centered around major historical events, key personalities, and national symbols.
- Challenges to sequence historical timelines or identify the influence of global events on Croatia.

AI Generated Universal Skill Simulator:

- Engage with simulations of historical events, from battles to peace treaties.
- Witness AI-animated reconstructions of historical moments, guided by an AI avatar.
- Analyze historical events and their impact on national identity, receiving AI feedback.

Interactive Simulation Scenarios:

- AI-designed scenarios like a council in ancient Croatia or a moment from the Croatian Renaissance.
- Re-enact historical moments or debates using EON Interact.

Incident Simulation:

- Address challenges or controversies in Croatian history.
- Explore these incidents for a nuanced understanding of their implications.

Dive into the intricacies of the Croatian language and its diverse dialects. With augmented reality, experience real-world applications, linguistic variations, and the beauty of Croatian phonetics and semantics.

Knowledge Portal with Floating Annotations:

- Hero image showcasing the Croatian language script and regional dialect maps.
- 10 floating knowledge portals focusing on:
    - The evolution of the Croatian language.
    - Basics of Croatian phonetics and grammar.
    - Differences and similarities among Croatian dialects.
    - The influence of neighboring languages on Croatian.
    - Croatian language in literature and media.
    - Modern trends and slang in Croatian.
    - Tools and resources for learning Croatian.
    - Croatian language and national identity.
    - Linguistic challenges and preservation efforts.
    - The global influence and spread of the Croatian language.

3-D Model Integration:

- Experience a 3-D augmented reality classroom setting for Croatian language lessons.
- Explore models showcasing pronunciation guides, dialect variations, and language tools.
- Integrate personal language notes or voice recordings for an enriched learning experience.

Annotations for the 3-D Model:

- Annotations elucidating linguistic terms, dialectal differences, and language usage examples.
- IntelliScan to highlight nuances in pronunciation, grammar rules, and dialectal variations.

Assessment Creation:

- Quizzes on Croatian vocabulary, grammar rules, and dialect recognition.
- Challenges to translate sentences, recognize dialectal differences, or understand language context.

AI Generated Universal Skill Simulator:

- Engage with standard Croatian language conversations and dialect interactions.
- AI-generated animations guide learners through language scenarios, from marketplaces to academic discussions.
- Practice language skills and get AI feedback on pronunciation, grammar, and dialect usage.

Interactive Simulation Scenarios:

- AI-curated scenarios like a Croatian poetry recitation or a regional dialect conversation.
- Simulate real-world Croatian language interactions using EON Interact.

Incident Simulation:

- Address linguistic challenges like miscommunication due to dialect differences.
- Delve into these incidents for clarity and language proficiency enhancement.

Croatian Art and Architecture

Embark on a vivid journey through Croatian art and architecture using the EON AI Assistant. Explore historical monuments, discover intricate art forms, and immerse yourself in the rich tapestry of Croatia's artistic legacy.

Knowledge Portal with Floating Annotations:

- Display a hero image showcasing iconic Croatian art pieces or architectural wonders.
- 10 floating knowledge portals that encompass:
    - Evolution of Croatian art.
    - Overview of Croatia's architectural marvels.
    - Byzantine influences in Croatian art.
    - The Renaissance period in Croatia.
    - Notable Croatian artists and architects.
    - Exploration of Croatian murals and frescoes.
    - Urban and rural architectural styles.
    - Art and architecture during the Croatian national revival.
    - Croatian modern art movements.
    - Restoration and conservation efforts.

3-D Model Integration:

- Experience a 3-D recreation of Croatian landmarks like Diocletian's Palace or the Dubrovnik city walls.
- Discover illustrative models of Croatian paintings, sculptures, and architectural sketches.
- Opportunity to upload personal sketches or photos and explore them in a 3-D environment.

Annotations for the 3-D Model:

- Annotations detailing architectural styles, art techniques, and historical context.
- IntelliScan feature to recognize different art periods, architectural styles, and art techniques.

Assessment Creation:

- Quizzes on different Croatian art periods, architectural styles, and notable Croatian artists.
- Challenges where students recognize art pieces or architectural wonders from different time periods.

AI Generated Universal Skill Simulator:

- Dive deep into the processes of Croatian art creation and architectural design.
- Witness AI-generated 3-D animations illustrating the construction of architectural landmarks or the evolution of art styles.
- Engage in art interpretation and architectural design simulations, with AI feedback.

Interactive Simulation Scenarios:

- Experience AI-identified scenarios of art galleries, construction sites, or artistic workshops.
- Simulate the process of art creation or architectural design using EON Interact.

Incident Simulation:

- Address challenges related to art restoration or architectural conservation.
- Engage in problem-solving to tackle these issues using EON Interact.

Delve into the heart of Croatian music and folklore traditions with the EON AI Assistant. Experience the rhythms, dances, and tales that have defined Croatia's cultural identity for centuries.

Knowledge Portal with Floating Annotations:

- Display a hero image capturing a traditional Croatian dance or musical ensemble.
- 10 floating knowledge portals covering:
    - History of Croatian music.
    - Overview of Croatian folklore tales.
    - Traditional Croatian instruments.
    - Klapa singing and its significance.
    - Famous Croatian folklore dances like Linđo.
    - The influence of folklore in modern Croatian music.
    - Festivals and celebrations centered around music and folklore.
    - Folklore's role in national identity.
    - Evolution of Croatian music genres.
    - Prominent figures in Croatian music and folklore.

3-D Model Integration:

- Experience a 3-D setting of a traditional Croatian music festival or a folklore dance stage.
- Explore illustrative models of instruments like the tamburica, or famous dance formations.
- Upload personal musical compositions or dance steps to simulate in a 3-D environment.

Annotations for the 3-D Model:

- Annotations detailing musical notes, instrument mechanics, and dance steps.
- IntelliScan to identify different Croatian music genres, dance forms, and traditional instruments.

Assessment Creation:

- Quizzes focusing on Croatian music history, folklore tales, and traditional instruments.
- Challenges where students recognize musical compositions or folklore dance forms.

AI Generated Universal Skill Simulator:

- Engage in the creation and understanding of Croatian music and dance.
- AI-generated 3-D animations demonstrate traditional dance steps or musical ensemble performances.
- Practice traditional dances or play musical compositions, with AI evaluations.

Interactive Simulation Scenarios:

- AI-driven scenarios showcasing music concerts, folklore dance performances, or storytelling sessions.
- Simulate the atmosphere of a traditional Croatian festival or musical event using EON Interact.

Incident Simulation:

- Address challenges like the preservation of traditional music or the modern adaptation of folklore tales.
- Strategize and immerse oneself in solutions and adaptations using EON Interact.

Faculty of Mining, Geology, and Petroleum Engineering

Resource Exploration and Management

Petroleum Engineering and Reservoir Simulation in VR

Delve into the intricate world of petroleum engineering and immerse yourself in reservoir simulations using the power of virtual reality, facilitated by the EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Display a hero image of an offshore oil rig or a reservoir model.
- 10 floating knowledge portals covering:
    - Basics of petroleum engineering.
    - Drilling techniques and machinery.
    - Reservoir rock and fluid properties.
    - Reservoir modeling and simulations.
    - Production systems and operations.
    - Enhanced oil recovery techniques.
    - Reservoir management strategies.
    - Economic aspects of petroleum extraction.

- Offshore vs. onshore drilling.
- Case studies of major oil fields and reservoirs.

3-D Model Integration:

- Engage with 3-D models of drilling rigs, reservoir structures, and subsurface geology.
- Visualize oil flow dynamics and reservoir management techniques.

Annotations for the 3-D Model:

- Annotations detailing equipment, rock layers, and reservoir components.
- IntelliScan offers insights into reservoir dynamics and drilling techniques.

Assessment Creation:

- Quizzes on reservoir theories, drilling operations, and petroleum engineering principles.
- Interactive challenges to identify reservoir components or predict drilling outcomes based on simulation data.

AI Generated Universal Skill Simulator:

- Witness standard petroleum extraction and reservoir management processes in 3-D.
- Train on various drilling techniques and reservoir simulations, receiving feedback from AI.

Interactive Simulation Scenarios:

- AI-driven scenarios showcasing oil rig operations or reservoir management sessions.
- Use EON Interact to virtually drill and manage oil reservoirs, experiencing real-time challenges.

Incident Simulation:

- Navigate common challenges like oil spills, drilling malfunctions, or reservoir depletion.
- Strategize solutions to address these incidents, learning best practices in the field.

Unearth the secrets of the Earth as you explore mineral deposits and delve deep into ore studies using EON AI Assistant's augmented and virtual reality tools.

Knowledge Portal with Floating Annotations:

- Hero image depicting a rich ore deposit or mineral exploration site.
- 10 floating knowledge portals discussing:
    - Introduction to mineral exploration.
    - Ore deposit classifications.
    - Mineral exploration techniques.
    - Geophysical and geochemical methods.
    - Remote sensing in mineral exploration.
    - Economic aspects of mineral extraction.
    - Case studies of major ore deposits.
    - Sustainability in mineral exploration.
    - Life cycle of a mine.
    - Ore beneficiation processes.

3-D Model Integration:

- Explore 3-D models of mining sites, mineral deposits, and extraction machinery.
- Visualize the depth and spread of major ore deposits across the globe.

Annotations for the 3-D Model:

- Annotations elucidating mineral types, mining tools, and deposit features.
- IntelliScan to provide deeper insights into mineral compositions and ore extraction techniques.

Assessment Creation:

- Quizzes focusing on mineral identification, ore deposit categories, and exploration methods.
- Interactive tasks challenging students to identify potential ore deposits or predict mineral compositions based on given data.

AI Generated Universal Skill Simulator:

- Immerse in standard mineral exploration processes and ore extraction techniques in 3-D.
- Engage in mineral identification tasks and ore extraction simulations, with AI-driven guidance.

Interactive Simulation Scenarios:

- AI-constructed scenarios showcasing field trips to potential mining sites or ore extraction processes.
- Use EON Interact to virtually explore and assess potential mineral deposits and their feasibility for extraction.

Incident Simulation:

- Confront common challenges in mineral exploration, such as environmental hazards, extraction failures, or incorrect mineral assessments.
- Formulate solutions and strategies to mitigate these challenges, learning from real-world incidents.

Geological Mapping and Field Techniques in AR

Step into the world of geological mapping and hone your field techniques using augmented reality. Let the EON AI Assistant guide you through terrains, rock formations, and geological marvels.

Knowledge Portal with Floating Annotations:

- Display a hero image of a geologist in the field or a detailed geological map.
- 10 floating knowledge portals elucidating:
    - Basics of geological mapping.
    - Tools and equipment in field geology.
    - Reading and interpreting geological maps.
    - Rock and mineral identification in the field.
    - Stratigraphy and sedimentology.
    - Structural geology and tectonics.
    - Geological time scale and its relevance.
    - Mapping for natural hazards.
    - Environmental implications of geological studies.
    - Advanced mapping technologies and GIS.

3-D Model Integration:

- Engage with 3-D terrains, geological formations, and rock specimens.
- Dive deep into fault lines, sediment layers, and tectonic plate interactions.

Annotations for the 3-D Model:

- Detailed annotations on rock types, geological structures, and map symbols.
- IntelliScan highlighting specific geological features and providing insights into their formation.

Assessment Creation:

- Quizzes on geological map reading, rock identification, and field techniques.
- Hands-on challenges prompting students to map specific terrains or identify geological features based on AR visuals.

AI Generated Universal Skill Simulator:

- Witness standard geological mapping procedures and field studies in 3-D.
- Engage in real-time rock identification and terrain mapping exercises with AI feedback.

Interactive Simulation Scenarios:

- AI-generated scenarios showcasing geological field trips or mapping expeditions.
- Use EON Interact to virtually traverse and map varying terrains, gaining hands-on experience.

Incident Simulation:

- Navigate through challenges like map discrepancies, unexpected geological formations, or equipment malfunctions.
- Strategize solutions and refine your geological mapping skills by addressing these incidents.

Environmental Aspects of Mining

Journey into the world of mining and discover its environmental impact. With the EON AI Assistant, understand the intricate balance of resource extraction and environmental preservation, and explore sustainable mining practices in augmented and virtual reality.

Knowledge Portal with Floating Annotations:

- Feature a hero image of a mining site juxtaposed with a pristine natural landscape.
- 10 floating knowledge portals exploring:
    - Introduction to mining processes.

- Major environmental concerns linked to mining.
- Soil erosion and deforestation due to mining.
- Water pollution and its mitigation.
- Air quality degradation and control.
- Biodiversity loss and habitat disruption.
- Mining waste management.
- Case studies of sustainable mining.
- Rehabilitation of mined lands.
- Global mining regulations and standards.

3-D Model Integration:

- Interact with a 3-D model of a mine showcasing different extraction methods.
- Dive into illustrative models of erosion patterns, water contamination, and mining equipment.
- Opportunity to visualize the transformation of mined sites post-rehabilitation.

Annotations for the 3-D Model:

- Annotations highlighting different sections of a mine, waste disposal methods, and environmental restoration techniques.
- IntelliScan feature identifies environmental impacts and mitigation efforts.

Assessment Creation:

- Quizzes on mining techniques, their environmental impacts, and sustainable alternatives.
- Challenges that test students' understanding of the balance between resource extraction and environmental protection.

AI Generated Universal Skill Simulator:

- Understand standard procedures in sustainable mining.
- Experience AI-generated animations of mining processes with an emphasis on minimal environmental disruption.
- Engage in virtual tours of mines and see firsthand the results of sustainable practices.

Interactive Simulation Scenarios:

- Experience AI-driven scenarios like open-pit mining vs. underground mining.
- Simulate the restoration process of mined lands using EON Interact.

Incident Simulation:

- Navigate through incidents such as accidental pollutant leaks or habitat destruction.
- Learn to manage and mitigate these challenges in real-time.

Energy Resources and Sustainable Practices

Embark on an enlightening exploration of energy resources and their sustainable use. With the EON AI Assistant, delve deep into the world of renewable energy, conservation practices, and the global shift toward sustainability.

Knowledge Portal with Floating Annotations:

- Display a hero image of contrasting energy sources: fossil fuels and renewables.
- 10 floating knowledge portals detailing:
    - Overview of global energy resources.
    - Fossil fuels and their environmental impact.
    - Introduction to renewable energy: solar, wind, hydro, and more.
    - Conservation techniques and energy efficiency.
    - Energy storage solutions.
    - Case studies of countries transitioning to renewables.
    - Environmental and economic benefits of sustainable energy.
    - Innovations in sustainable energy technologies.
    - Challenges and solutions in energy transition.
    - The future of global energy.

3-D Model Integration:

- Engage with a 3-D model of a modern hybrid energy plant, blending renewables with traditional sources.
- Discover illustrative models of solar panels, wind turbines, hydroelectric dams, and geothermal plants.
- Visualize the carbon footprint of different energy sources.

Annotations for the 3-D Model:

- Annotations explaining the workings of various energy generators, storage units, and energy distribution systems.
- IntelliScan to highlight efficiency rates, energy outputs, and carbon emissions.

Assessment Creation:

- Quizzes focusing on the advantages and limitations of various energy sources, and sustainable practices.
- Challenges that evaluate students' understanding of the energy transition and its global implications.

AI Generated Universal Skill Simulator:

- Grasp standard operations in renewable energy generation and conservation.
- Experience AI-generated animations of the workings of energy plants, both traditional and renewable.
- Simulate energy conservation methods and witness their impact in real-time.

Interactive Simulation Scenarios:

- Engage in AI-identified scenarios such as managing a solar farm or optimizing a wind turbine farm.
- Explore the process of energy storage and distribution using EON Interact.

Incident Simulation:

- Address challenges like energy blackouts, equipment malfunctions, or inefficient energy utilization.
- Develop strategies to overcome these challenges using sustainable solutions.

Faculty of Special Education and Rehabilitation

Rehabilitation and Special Needs Education

Rehabilitation Techniques in VR

Explore the transformative potential of virtual reality in rehabilitation. Engage in simulated environments, understand advanced therapeutic techniques, and discover the future of VR-powered rehabilitation.

Knowledge Portal with Floating Annotations:

- Hero image depicting a patient immersed in a VR rehabilitation session.
- 10 floating knowledge portals discussing:
    - Introduction to VR in rehabilitation.
    - Advantages and challenges of VR therapy.

- Case studies of successful VR rehabilitation.
- Equipment and tools in VR rehabilitation.
- Creating personalized VR therapy sessions.
- VR for neurological disorders.
- Feedback mechanisms in VR rehabilitation.
- Safety and ethics in VR-based therapy.
- Future trends in VR rehabilitation.
- Patient experiences and testimonials.

3-D Model Integration:

- Experience a 3-D virtual therapy room equipped with VR rehabilitation tools.
- Illustrative example: A VR headset with motion sensors and feedback mechanisms.
- Opportunity to experience sample VR therapy scenarios.

Annotations for the 3-D Model:

- Annotations detailing VR equipment, therapy scenarios, and safety precautions.
- IntelliScan for recognizing various VR tools and their purposes.

Assessment Creation:

- Quizzes on VR tools, therapy benefits, and potential challenges.
- Practical assessments where students design basic VR therapy scenarios.

AI Generated Universal Skill Simulator:

- Engage in standard VR therapy procedures.
- Experience AI-powered demonstrations of various rehabilitation exercises in VR.
- Design and execute VR rehabilitation strategies with AI feedback.

Interactive Simulation Scenarios:

- AI-driven scenarios of real-world rehabilitation needs met through VR.
- Simulate designing VR sessions for specific patient needs using EON Interact.

Incident Simulation:

- Handle potential challenges, like patients feeling disoriented in VR.
- Strategize and develop solutions to improve patient comfort and therapy effectiveness.

Delve into the complexities of special education, understanding the diverse needs of students and the innovative solutions that technology brings to curriculum design.

Knowledge Portal with Floating Annotations:

- Hero image showcasing a special education classroom setting.
- 10 floating knowledge portals that encompass:
    - Introduction to special education.
    - Recognizing diverse learning needs.
    - Technology's role in special education.
    - Case studies of successful curriculum designs.
    - Incorporating experiential learning.
    - Adapting to individual learning paces.
    - Evaluating learning outcomes.
    - Continuous curriculum updates based on feedback.
    - Ethical considerations in special education.
    - Parental and caregiver roles in special education.

3-D Model Integration:

- Experience a 3-D virtual special education classroom equipped with advanced learning tools.
- Illustrative example: Adaptive learning devices tailored for special needs.
- Experiment with adaptive curriculum modules.

Annotations for the 3-D Model:

- Annotations on learning devices, classroom settings, and student-teacher interactions.
- IntelliScan to identify various tools and their specific uses.

Assessment Creation:

- Quizzes on special education principles, adaptive technologies, and teaching methodologies.
- Design assignments where students create sample curriculum modules for diverse learners.

AI Generated Universal Skill Simulator:

- Experience standard special education teaching techniques.
- AI demonstrations on individualized learning plans and their execution.

- Develop and adapt teaching methods based on AI feedback.

Interactive Simulation Scenarios:

- AI-generated scenarios of real-world classroom challenges.
- Use EON Interact to design adaptive learning environments for diverse needs.

Incident Simulation:

- Address challenges like integrating technology for non-verbal learners.
- Develop and implement strategies for effective special education.

Speech Therapy and Communication Disorders in AR

Explore the integration of augmented reality in addressing communication disorders. Engage with innovative speech therapy techniques, simulations, and case studies brought to life in AR.

Knowledge Portal with Floating Annotations:

- Hero image showcasing a therapist and patient engaging in AR-based speech therapy.
- 10 floating knowledge portals:
    - Overview of communication disorders.
    - Benefits of AR in speech therapy.
    - Tools and technologies in AR speech therapy.
    - Case studies showcasing AR success stories.
    - Techniques for pronunciation and articulation.
    - AR for auditory processing disorders.
    - Feedback mechanisms in AR therapy.
    - Designing AR therapy sessions.
    - Ethical considerations in AR speech therapy.
    - Patient experiences with AR therapy.

3-D Model Integration:

- Experience a 3-D virtual therapy setup showcasing AR tools.
- Illustrative example: AR glasses used for speech cues and feedback.
- Engage in sample AR therapy sessions.

Annotations for the 3-D Model:

- Annotations on AR tools, feedback mechanisms, and therapy processes.
- IntelliScan to identify tools and their specific roles in therapy.

Assessment Creation:

- Quizzes on communication disorders, AR tools, and therapeutic techniques.
- Practical assessments to design basic AR therapy exercises.

AI Generated Universal Skill Simulator:

- Engage with standard AR therapy techniques.
- AI-powered demonstrations of various speech exercises in AR.
- Design and conduct AR therapy sessions with AI feedback.

Interactive Simulation Scenarios:

- AI-created scenarios showcasing real-world therapy challenges.
- Simulate designing AR therapy techniques using EON Interact.

Incident Simulation:

- Tackle challenges like patients being overwhelmed by AR inputs.
- Strategize and develop methods to improve therapy outcomes.

Physical Rehabilitation and Therapeutic Exercise

Explore the realm of physical rehabilitation and therapeutic exercise using the EON AI Assistant. Learn about various techniques, tools, and best practices through immersive 3D simulations and engage in interactive modules that cover every aspect of physical therapy.

Knowledge Portal with Floating Annotations:

- Display a hero image showcasing a modern physical therapy setting.
- 10 floating knowledge portals covering:
    - Anatomy and biomechanics.
    - Basics of physical rehabilitation.
    - Common injuries and conditions.
    - Techniques in therapeutic exercise.
    - Role of ergonomics in rehabilitation.
    - Patient assessment and diagnostics.
    - Rehabilitation equipment and tools.

- Case studies of successful recoveries.
- Importance of patient-practitioner communication.
- Latest research and developments in the field.

3-D Model Integration:

- Experience a 3-D simulation of a rehabilitation center, complete with therapy rooms, tools, and equipment.
- Explore illustrative models of human anatomy, therapeutic tools, and exercise demonstrations.
- Opportunity to upload and explore customized rehabilitation plans.

Annotations for the 3-D Model:

- Floating annotations detailing muscle groups, exercise techniques, and equipment functionalities.
- IntelliScan feature for deeper insight into rehabilitation tools and injury-specific exercises.

Assessment Creation:

- Quizzes on anatomy, injury identification, and therapeutic methods.
- Challenges that prompt students to recommend exercises for specific injury scenarios.

AI Generated Universal Skill Simulator:

- Engage with standard rehabilitation processes and therapeutic exercises.
- Watch AI-generated 3-D demonstrations of exercises, muscle movements, and recovery stages.
- Practice therapeutic exercise routines, receiving AI feedback on technique and efficiency.

Interactive Simulation Scenarios:

- Experience AI-identified scenarios, such as a physiotherapy session or post-op rehabilitation.
- Simulate patient assessments and treatment planning using EON Interact.

Incident Simulation:

- Encounter challenges like unexpected complications during recovery or the need for adaptive therapeutic methods.
- Strategize treatment modifications and adaptive techniques.

Behavioral Analysis and Therapy Techniques

Delve into the intricate science of behavioral analysis and therapeutic interventions with the EON AI Assistant. Navigate through in-depth modules that combine theory with practical, AI-driven simulations to offer a comprehensive learning experience.

Knowledge Portal with Floating Annotations:

- Display a hero image of a therapist's office or counseling session.
- 10 floating knowledge portals that discuss:
    - Basics of behavioral analysis.
    - Cognitive-behavioral therapy (CBT) techniques.
    - Behavioral patterns and deviations.
    - Role of environment in behavior.
    - Case studies of behavioral interventions.
    - Tools and assessments in therapy.
    - Different therapeutic approaches.
    - Importance of confidentiality and ethics.
    - Patient-practitioner relationship dynamics.
    - Ongoing research in behavioral therapy.

3-D Model Integration:

- Experience a 3-D virtual therapist’s office with tools used for therapy and assessments.
- Dive into illustrative models demonstrating behavioral patterns, cognitive processes, and therapy techniques.
- Opportunity to simulate different therapy sessions based on real-life case studies.

Annotations for the 3-D Model:

- Annotations elucidating therapeutic methods, behavioral patterns, and cognitive structures.
- IntelliScan feature highlighting essential tools and techniques in behavioral therapy.

Assessment Creation:

- Quizzes on behavioral theories, therapeutic methods, and case analysis.
- Challenges to design behavioral interventions for simulated patient scenarios.

AI Generated Universal Skill Simulator:

- Engage in AI-driven simulations of therapy sessions, showcasing various therapeutic techniques.
- Practice and demonstrate therapeutic interventions, with AI evaluations providing feedback.

Interactive Simulation Scenarios:

- Engage with AI-driven scenarios like group therapy sessions or family counseling.
- Simulate the process of behavioral analysis and intervention using EON Interact.

Incident Simulation:

- Navigate challenges in therapy, such as resistant patients or ethical dilemmas.
- Develop strategies and solutions, emphasizing best practices in the field.

Faculty of Political Science

Politics and International Relations

International Diplomacy Simulations

Immerse yourself in the complex world of international relations and experience the intricacies of diplomacy firsthand using advanced simulations. Negotiate treaties, manage crises, and gain a profound understanding of global dynamics.

Knowledge Portal with Floating Annotations:

- Hero image featuring prominent international diplomatic events.
- 10 floating knowledge portals detailing:
    - Basics of international diplomacy.
    - History of diplomatic relations.
    - Major treaties and their impacts.
    - The art of negotiation.
    - International organizations and their roles.
    - Crisis management.

- Soft power vs. hard power.
- Diplomatic protocols and etiquette.
- Roles of ambassadors and consuls.
- Case studies of successful diplomacy.

3-D Model Integration:

- Engage with a 3-D virtual United Nations assembly or diplomatic summit setting.
- Explore illustrative models of embassies, international courts, and negotiation tables.
- Engage in simulated diplomatic dialogues and crisis resolution scenarios.

Annotations for the 3-D Model:

- Annotations highlighting diplomatic symbols, chamber functions, and delegate positions.
- IntelliScan to identify member flags, diplomatic insignia, and treaty documents.

Assessment Creation:

- Quizzes on international treaties, negotiation strategies, and diplomatic history.
- Challenges that require understanding diplomatic protocols and managing international incidents.

AI Generated Universal Skill Simulator:

- Participate in standard diplomatic interactions, treaty negotiations, and crisis resolutions.
- Engage with AI-generated diplomats representing various nations in a simulation.

Interactive Simulation Scenarios:

- AI-curated scenarios like a G7 summit, peace treaty signings, or international trade negotiations.
- Simulate diplomatic engagements, using EON Interact to manage multi-country collaborations.

Incident Simulation:

- Manage diplomatic incidents like embassy attacks, visa issues, or international disputes.
- Strategically navigate incidents, ensuring diplomatic integrity and international harmony.

Political Theory and Ideologies in VR

Venture into the realms of political theory and ideologies using virtual reality. Discover the philosophies that have shaped nations, inspired revolutions, and driven societal evolution.

Knowledge Portal with Floating Annotations:

- Hero image portraying significant political theorists or iconic moments in political history.
- 10 floating knowledge portals presenting:
    - Introduction to political theory.
    - Evolution of political ideologies.
    - Capitalism, socialism, and communism.
    - Feminism and gender politics.
    - Environmental and green politics.
    - Anarchism and its principles.
    - Nationalism and its variations.
    - Liberalism and conservatism.
    - Colonialism and post-colonialism.
    - Case studies of political movements.

3-D Model Integration:

- Experience a 3-D timeline of political evolution, showcasing shifting ideologies over centuries.
- Explore models of iconic political gatherings, revolutionary moments, and influential figures.

Annotations for the 3-D Model:

- Annotations providing insights on major political events, theorists, and their contributions.
- IntelliScan to identify political symbols, flags of movements, and landmark documents.

Assessment Creation:

- Quizzes on political ideologies, their proponents, and global impacts.
- Engage in challenges comparing and contrasting different political philosophies.

AI Generated Universal Skill Simulator:

- Engage in debates and discussions on varying political ideologies.
- Experience AI-generated political rallies, conferences, and revolutions.

Interactive Simulation Scenarios:

- AI-driven experiences of ideological movements, like the French Revolution or the Civil Rights Movement.
- Engage in thought experiments and dialogues on political ideologies using EON Interact.

Incident Simulation:

- Navigate political crises driven by ideological clashes.
- Formulate responses to incidents while understanding the underlying political theories.

Media, Communication, and Political Influence

Dive into the dynamic interplay between media, communication, and political influence. Explore how media shapes public perception, drives political narratives, and influences policy-making.

Knowledge Portal with Floating Annotations:

- Hero image showcasing influential media moments in political history.
- 10 floating knowledge portals detailing:
    - Evolution of media in politics.
    - Impact of print, radio, and television.
    - Rise of digital media and social platforms.
    - Propaganda and its mechanisms.
    - Case studies: Media-driven political events.
    - Bias and impartiality in reporting.
    - Media's role in elections.
    - Crisis communication in politics.
    - Public relations in governance.
    - The era of fake news and information verification.

3-D Model Integration:

- Experience a 3-D virtual newsroom, press conferences, and influential media events.
- Dive deep into models representing media technologies over the decades.

Annotations for the 3-D Model:

- Annotations highlighting media equipment, historical media moments, and the evolution of communication.
- IntelliScan offering insights on media personalities, iconic broadcasts, and political communications.

Assessment Creation:

- Quizzes on media's role in shaping political landscapes, communication strategies, and media technologies.
- Engage in challenges to craft political messages and manage media narratives.

AI Generated Universal Skill Simulator:

- Role-play as journalists, politicians, or PR managers in politically charged environments.
- Experience AI-driven press conferences, media interviews, and crisis communications.

Interactive Simulation Scenarios:

- AI-curated scenarios like managing a political scandal in media, crafting an election campaign, or holding a digital townhall.
- Engage with the public, manage narratives, and use EON Interact to influence political communication.

Incident Simulation:

- Navigate media crises like leaks, misinformation campaigns, or media blackout incidents.
- Formulate responses while considering media dynamics and political repercussions.

Conflict Resolution and Peace Studies in AR

Immerse yourself in the world of conflict resolution and peace studies with the EON AI Assistant. Explore historical conflicts, understand the principles of mediation, and engage in virtual peace-building scenarios in augmented reality.

Knowledge Portal with Floating Annotations:

- Display a hero image portraying iconic peace symbols or notable peace agreements.
- 10 floating knowledge portals covering:
    - The history of global conflicts.
    - Introduction to peace studies.
    - Techniques of conflict resolution.
    - Role of international organizations.
    - Mediation and arbitration methods.
    - Case studies of successful peace agreements.
    - Psychological aspects of conflict.
    - Cultural perspectives on peace.
    - The economic impact of wars and conflicts.
    - The future of peace and conflict studies.

3-D Model Integration:

- Experience a 3-D model of a UN peace summit or a mediation session.
- Explore illustrative models like peace symbols, mediation rooms, and war memorabilia.
- Option to upload and explore personal research or case studies in 3-D.

Annotations for the 3-D Model:

- Floating annotations explaining symbols of peace, key figures in conflict resolution, and nuances of mediation.
- IntelliScan feature to highlight pivotal moments in peace history or significant treaties.

Assessment Creation:

- Quizzes focusing on understanding conflicts, principles of peace, and mediation techniques.
- Challenges to identify historical peace events, key figures, and analyze case studies.

AI Generated Universal Skill Simulator:

- Engage with standard processes in conflict resolution.
- Experience AI-generated 3-D animations illustrating mediation sessions, peace-building exercises, or diplomatic negotiations.
- Engage in mock negotiation sessions and receive feedback from the AI on strategy and approach.

Interactive Simulation Scenarios:

- Engage in AI-identified scenarios like diplomatic negotiations, on-ground peace-building efforts, or reconciliation sessions.
- Simulate conflict resolution scenarios using EON Interact, understanding the nuances and challenges of each situation.

Incident Simulation:

- Encounter real-world challenges in conflict resolution, such as stalled negotiations or rising tensions.
- Strategize and address these challenges, understanding the complexities of maintaining peace.

Public Administration and Governance

Embark on a journey through the corridors of public administration and governance using the EON AI Assistant. Understand policymaking, explore government structures, and simulate administrative scenarios in augmented and virtual reality.

Knowledge Portal with Floating Annotations:

- Display a hero image showcasing iconic government buildings or influential policymakers.
- 10 floating knowledge portals covering:
    - Basics of public administration.
    - The role of bureaucracy.
    - Policy formulation and implementation.
    - Governance structures and hierarchies.
    - Case studies of effective governance.
    - Public finance and budgeting.
    - Ethics in public administration.
    - Role of technology in governance.
    - Public-private partnerships.
    - Global perspectives on governance.

3-D Model Integration:

- Experience a 3-D representation of a government office, policy-making sessions, or a city's governance structure.
- Discover illustrative examples like parliament buildings, administrative tools, or policy documents.
- Option to upload and review personal research or governance models in 3-D.

Annotations for the 3-D Model:

- Annotations detailing the functions of different government departments, policy-making processes, and governance strategies.
- IntelliScan to identify key governance models, influential figures in public administration, and landmark policies.

Assessment Creation:

- Quizzes on understanding government structures, policy-making processes, and ethical considerations.
- Challenges to recognize government departments, policy impacts, or analyze governance case studies.

AI Generated Universal Skill Simulator:

- Engage with standard procedures in public administration.
- Watch AI-generated 3-D animations of policy formulation sessions, budget allocations, or public hearings.
- Participate in simulated administrative tasks and get assessed by the AI on decision-making and effectiveness.

Interactive Simulation Scenarios:

- Experience AI-driven scenarios like town planning meetings, public welfare schemes, or emergency response planning.
- Simulate governance and administrative decisions using EON Interact, evaluating the potential impacts of each choice.

Incident Simulation:

- Address real-world challenges in governance, such as public grievances, policy loopholes, or administrative dilemmas.
- Deliberate and solve these challenges, gaining a comprehensive understanding of public administration.

Center for Rehabilitation

Healthcare and Physical Therapy

Physical Therapy Techniques in VR

Dive into the transformative world of physical therapy using virtual reality. With the EON AI Assistant, experience realistic simulations, understand body mechanics, and learn the latest techniques to aid patient recovery.

Knowledge Portal with Floating Annotations:

- Hero image of a physical therapy session in progress.
- 10 floating knowledge portals encompassing:
    - Introduction to physical therapy.
    - Body mechanics and posture.
    - Common injuries requiring therapy.
    - Movement and exercise fundamentals.
    - Manual therapy techniques.
    - Patient evaluation and diagnosis.
    - Case studies of successful recoveries.
    - Tools and equipment in physical therapy.
    - Home exercises and patient involvement.
    - Trends and advancements in the field.

3-D Model Integration:

- Explore a 3-D virtual physical therapy clinic, complete with equipment.
- Illustrative models of the human skeleton, muscles, and common therapeutic devices.
- Option to upload and view customized exercise demos in 3D.

Annotations for the 3-D Model:

- Floating annotations detailing muscle groups, equipment functionality, and therapy procedures.
- IntelliScan highlights areas of interest in human anatomy and biomechanics.

Assessment Creation:

- Quizzes on anatomy, common injuries, and therapy methods.
- Simulations where students diagnose virtual patients and recommend exercises.

AI Generated Universal Skill Simulator:

- Engage with standard procedures of physical therapy.
- AI-driven demonstrations of exercises and techniques.
- Students can perform therapy motions and receive feedback.

Interactive Simulation Scenarios:

- AI-generated scenarios such as patient evaluations, exercise sessions, or equipment setup.
- Hands-on simulations where students can guide virtual patients through recovery processes.

Incident Simulation:

- Real-world challenges like treating unexpected injuries or dealing with non-cooperative patients.
- Strategies to tackle these scenarios effectively.

Occupational Therapy and Functional Training

Engage in a comprehensive exploration of occupational therapy and functional training with EON AI Assistant. Experience hands-on demonstrations, simulations, and a deep dive into therapeutic techniques, all within an immersive augmented reality environment.

Knowledge Portal with Floating Annotations:

- Hero image displaying a therapeutic session or functional training exercises.
- 10 floating knowledge portals highlighting:
    - Principles of occupational therapy.
    - Basics of functional training.
    - Activity analysis in occupational therapy.
    - Adaptive techniques and tools.
    - Role of environment in functional rehabilitation.
    - Pediatric and geriatric occupational therapy.
    - Case studies of successful interventions.
    - Occupational health and wellness.
    - Sensory integration therapy.
    - Ergonomics and occupational therapy.

3-D Model Integration:

- Experience a 3-D representation of a therapy room, showcasing adaptive tools and equipment.
- Explore models of ergonomic workspaces, adaptive devices, and functional training setups.

Annotations for the 3-D Model:

- Annotations detailing equipment functionality, therapy techniques, and adaptive strategies.
- IntelliScan feature to recognize and describe various therapeutic tools.

Assessment Creation:

- Quizzes focusing on occupational therapy theories, functional training methods, and adaptive techniques.
- Practical challenges that test understanding of therapeutic interventions and training protocols.

AI Generated Universal Skill Simulator:

- Engage with standard occupational therapy sessions and functional training routines.
- Watch AI-curated 3-D demonstrations of therapy techniques and training exercises.
- Practice and receive feedback on occupational therapy interventions.

Interactive Simulation Scenarios:

- Experience AI-constructed scenarios like a home assessment for occupational therapy or a functional training session.
- Create customized therapy plans using EON Interact based on simulated patient profiles.

Incident Simulation:

- Handle potential challenges in therapy, such as non-compliance or unexpected outcomes.
- Strategize and provide solutions to these incidents through therapeutic adjustments.

Dive into the futuristic world of assistive technologies in rehabilitation, enhanced by augmented reality. Witness the transformation of rehabilitation with the integration of innovative technologies, ensuring optimal outcomes for individuals with diverse needs.

Knowledge Portal with Floating Annotations:

- Hero image capturing state-of-the-art assistive devices in action.
- 10 floating knowledge portals encompassing:
    - Introduction to assistive technologies.
    - Role of AR in enhancing rehabilitation.
    - Wearable technologies for movement support.
    - Voice-activated devices for communication.
    - Augmented reality tools for visual and auditory aid.
    - Robotic assistance in mobility.
    - Virtual reality for cognitive rehabilitation.
    - Case studies: Tech-enhanced rehabilitation success stories.
    - Future trends in assistive technologies.
    - Ethical considerations and accessibility.

3-D Model Integration:

- Explore a 3-D virtual rehabilitation center, furnished with the latest assistive devices.
- Engage with illustrative examples like exoskeletons, AR glasses, and speech-generating devices.

Annotations for the 3-D Model:

- Annotations explaining the functionality of each device, AR tools, and technological integrations.
- IntelliScan for in-depth insights into each assistive technology's mechanism.

Assessment Creation:

- Quizzes on types of assistive technologies, their applications, and benefits.
- Challenges to identify and recommend suitable technologies based on simulated client profiles.

AI Generated Universal Skill Simulator:

- Engage with typical scenarios where assistive technologies play a pivotal role in rehabilitation.

- Experience AI-driven demonstrations of how these technologies aid individuals in real-life settings.

Interactive Simulation Scenarios:

- AI-constructed scenarios such as a day in the life of an individual using multiple assistive devices.
- Create and test custom assistive solutions using EON Interact for varied rehabilitation needs.

Incident Simulation:

- Address potential technical glitches or user difficulties with assistive devices.
- Troubleshoot and adapt to ensure smooth rehabilitation processes.

Sports Medicine and Athletic Rehabilitation

Step into the dynamic realm of sports medicine and athletic rehabilitation using EON AI Assistant. Gain insights into injury prevention, management, and cutting-edge rehabilitation techniques designed for elite athletes and fitness enthusiasts.

Knowledge Portal with Floating Annotations:

- Hero image showcasing an athletic training facility or sports medicine clinic.
- 10 floating knowledge portals presenting:
    - Basics of sports medicine.
    - Injury prevention strategies.
    - Types of athletic injuries.
    - Rehabilitation protocols for common injuries.
    - Role of biomechanics in sports medicine.
    - Nutrition and hydration in sports recovery.
    - Physiotherapy techniques for athletes.
    - Case studies: Rehabilitation success stories.
    - Sports psychology and athlete well-being.
    - Advanced techniques like cryotherapy and hydrotherapy.

3-D Model Integration:

- Engage with a 3-D sports clinic, highlighting physiotherapy equipment and training setups.
- Experience models of the human muscular-skeletal system, showcasing injury mechanics.

Annotations for the 3-D Model:

- Annotations detailing sports injuries, rehabilitation tools, and therapy techniques.
- IntelliScan for an in-depth look at injury mechanisms and recovery pathways.

Assessment Creation:

- Quizzes centered on sports injury types, rehabilitation methodologies, and prevention strategies.
- Practical challenges to draft rehabilitation plans for simulated athlete profiles.

AI Generated Universal Skill Simulator:

- Engage with real-world sports injury scenarios and rehabilitation processes.
- Watch AI-constructed demonstrations showcasing rehabilitation techniques and recovery pathways.

Interactive Simulation Scenarios:

- AI-driven scenarios like a post-injury recovery journey or a preventative training regimen.
- Design and test athletic rehabilitation plans using EON Interact based on specific sports and injury types.

Incident Simulation:

- Tackle challenges like injury reoccurrence, rehab setbacks, or psychological barriers in athletes.
- Strategize and deliver effective solutions to these incidents, ensuring athletes' return to optimal performance.

Neurological Rehabilitation Techniques

Delve into the world of neurological rehabilitation through the EON AI Assistant's immersive platform. Engage with state-of-the-art methods, explore 3D models of the human brain, and interact with AI-generated simulations of rehabilitation exercises, all aimed at understanding and mastering the techniques essential for recovery from neurological disorders.

Knowledge Portal with Floating Annotations:

- Display a hero image illustrating the complexity of the human nervous system.
- 10 floating knowledge portals covering:
    - Basics of neurology and neural anatomy.
    - Common neurological disorders.
    - Principles behind neurological rehabilitation.
    - Motor and cognitive rehabilitation techniques.
    - Adaptive equipment and assistive technology.
    - Case studies of successful rehabilitation.
    - Role of physical and occupational therapy.
    - Importance of patient and caregiver education.
    - Measuring outcomes and progress.
    - Future trends in neurological rehabilitation.

3-D Model Integration:

- Engage with a detailed 3-D model of the human brain, spinal cord, and the intricate network of neurons.
- Illustrative examples of rehabilitation equipment, assistive devices, and therapy setups.
- Opportunity for students to upload and view personal case studies in an augmented reality setting.

Annotations for the 3-D Model:

- Floating annotations explaining different brain regions, neural pathways, and the effects of injuries.
- IntelliScan feature to recognize and detail out various brain structures and their functions.

Assessment Creation:

- Quizzes focusing on the anatomy of the nervous system, recognizing neurological disorders, and rehabilitation techniques.
- Practical tasks where students identify equipment or predict rehabilitation outcomes based on case studies.

AI Generated Universal Skill Simulator:

- Engage with standard neurological rehabilitation procedures.

- Watch AI-generated 3-D animations demonstrating rehabilitation exercises, use of assistive technologies, and therapy sessions.
- Practically demonstrate knowledge of techniques and get real-time feedback from the AI on correct execution.

Interactive Simulation Scenarios:

- Experience AI-identified scenarios such as a therapy session, a patient's initial assessment, or the integration of assistive technology into a patient's daily routine.
- Simulate different patient cases, adjusting rehabilitation strategies using EON Interact.

Incident Simulation:

- Encounter typical challenges faced in neurological rehabilitation, such as patient non-compliance, exacerbation of symptoms, or equipment malfunctions.
- Strategize and work on solutions, honing decision-making and problem-solving skills in real-world scenarios.

Faculty of Graphic Arts

Printing and Publishing

Typography and Layout Design in VR

Delve into the intricate world of typography and layout design in a virtual reality environment. Understand font families, explore layout dynamics, and create compelling designs with the immersive EON AI Assistant.

Knowledge Portal with Floating Annotations:

- A hero image highlighting classic fonts and groundbreaking layout designs.
- 10 floating knowledge portals detailing:
    - History of typography.
    - Basics of layout design.
    - The psychology of fonts.
    - Typography in branding.
    - Modern layout trends.

- Print vs. digital layouts.
- Font pairings and contrast.
- Visual hierarchy in layout design.
- Use of color in typography.
- Grid systems and alignment.

3-D Model Integration:

- Explore a virtual design studio filled with tools, type specimens, and layout drafts.
- Illustrative models like typewriters, press printing machines, and digital design tablets.
- Ability to upload and visualize personal typography projects in a 3D environment.

Annotations for the 3-D Model:

- Annotations on the nuances of different fonts, layout patterns, and design techniques.
- IntelliScan to identify font families, layout structures, and design styles.

Assessment Creation:

- Quizzes on typography terms, iconic fonts, and effective layout strategies.
- Challenges to design virtual layouts and select complementary fonts.

AI Generated Universal Skill Simulator:

- Engage with standard processes in typography selection and layout design.
- AI-generated 3-D animations showcasing the evolution of fonts or layout transformation over time.
- Simulate typography and layout design tasks, receiving AI feedback on aesthetics and effectiveness.

Interactive Simulation Scenarios:

- Experience real-world design challenges, from branding campaigns to editorial layouts.
- Utilize EON Interact to craft and refine typographic choices and layouts.

Incident Simulation:

- Handle design discrepancies, font mismatches, or layout disruptions.
- Utilize the AI's guidance to find optimal design solutions.

Navigate the vast domain of digital printing and imaging technologies using EON AI Assistant. From understanding printing mechanisms to exploring advanced imaging processes, experience it all in augmented and virtual reality.

Knowledge Portal with Floating Annotations:

- Hero image of a state-of-the-art digital printer and high-definition scanned images.
- 10 floating knowledge portals covering:
    - Evolution of printing technology.
    - Basics of digital imaging.
    - Types of digital printers.
    - Color management in printing.
    - Scanning technologies and resolutions.
    - Printing materials and surfaces.
    - Maintenance of digital printing machines.
    - Inkjet vs. laser printing.
    - Large format printing techniques.
    - Future trends in digital imaging.

3-D Model Integration:

- A 3-D virtual print shop highlighting various printing and imaging equipment.
- Illustrative models of printers, scanners, and printing materials.
- Opportunity to visualize a digital print project from design to final print.

Annotations for the 3-D Model:

- Annotations detailing the mechanics of printers, imaging principles, and material properties.
- IntelliScan for printer components, ink types, and imaging resolutions.

Assessment Creation:

- Quizzes on printing terminologies, imaging techniques, and equipment functionalities.
- Challenges to identify printer types, imaging technologies, or print quality factors.

AI Generated Universal Skill Simulator:

- Standard procedures in digital printing and imaging showcased in 3-D animations.

- AI-guided simulations for setting up a print job or optimizing an image for digital print.

Interactive Simulation Scenarios:

- Real-world scenarios such as handling a large print order or restoring an old image.
- Using EON Interact to select the right printing method or adjust imaging settings.

Incident Simulation:

- Address common printing errors or imaging discrepancies.
- AI-driven solutions for optimal print quality and imaging results.

Graphic Design and Multimedia in AR

Experience the intersection of graphic design and augmented reality with the EON AI Assistant. Dive into multimedia techniques, explore AR interfaces, and craft captivating designs tailored for the augmented world.

Knowledge Portal with Floating Annotations:

- Hero image of interactive AR designs and multimedia installations.
- 10 floating knowledge portals elaborating on:
    - Basics of graphic design in AR.
    - Tools and software for AR design.
    - Multimedia integration in AR platforms.
    - User experience and AR interfaces.
    - Animation and motion graphics in AR.
    - Sound design for AR experiences.
    - 3D modeling for AR applications.
    - Augmented reality storytelling.
    - Interactivity and engagement metrics.
    - Future trends in AR design.

3-D Model Integration:

- Virtual AR design studio showcasing tools, AR devices, and multimedia elements.
- Illustrative models like AR glasses, interactive touchpoints, and 3D designs.
- Import and experience personal AR graphic projects in real-time.

Annotations for the 3-D Model:

- Annotations explaining AR device functionalities, design principles, and multimedia integrations.
- IntelliScan for recognizing AR design elements, multimedia formats, and user interactions.

Assessment Creation:

- Quizzes on AR design principles, multimedia formats, and AR user engagement.
- Challenges to design an AR interface or integrate multimedia elements effectively.

AI Generated Universal Skill Simulator:

- 3-D animations demonstrating the creation and deployment of AR graphic designs.
- Simulate the design of AR experiences, receiving AI-driven feedback on user engagement and interactivity.

Interactive Simulation Scenarios:

- Real-life scenarios like launching an AR marketing campaign or creating an interactive AR exhibition.
- Use EON Interact to refine AR designs and enhance multimedia integrations.

Incident Simulation:

- Address challenges in AR design, from user navigation issues to multimedia playback errors.
- AI-supported solutions to optimize AR experiences and multimedia display.

Book Design and Publishing

Delve into the fascinating realm of book design and publishing with the EON AI Assistant. Experience the nuances of typography, cover art, and the journey of a manuscript to a published masterpiece in augmented and virtual reality.

Knowledge Portal with Floating Annotations:

- Hero image displaying a montage of classic book covers and publishing houses.
- 10 floating knowledge portals encompassing:
    - The history of book design and publishing.
    - Typography and layout design.

- The role of cover art in book marketing.
- The modern publishing process.
- Traditional vs. digital publishing.
- Rights, contracts, and royalties.
- Book formats and binding techniques.
- Promotion and distribution strategies.
- Future trends in book design.
- The relationship between authors, designers, and publishers.

3-D Model Integration:

- Explore a 3-D virtual publishing house, showcasing the journey from manuscript to final print.
- Engage with models of vintage printing presses, modern design software, and various book formats.
- Opportunity to upload personal book designs and experience them in augmented settings.

Annotations for the 3-D Model:

- Annotated insights into the workings of printing machinery, design choices, and publishing stages.
- IntelliScan spotlighting book design elements and publishing milestones.

Assessment Creation:

- Quizzes on the evolution of book design, publishing ethics, and market trends.
- Challenges that prompt students to design book covers or strategize a book's market launch.

AI Generated Universal Skill Simulator:

- Engage with the holistic process of book design and publishing.
- AI-guided 3-D animations narrating the transformation of a raw manuscript into a printed treasure.
- Design, format, and publish virtual books, receiving AI feedback on every step.

Interactive Simulation Scenarios:

- Experience AI-identified scenarios like a book cover design brainstorm or a publishing contract negotiation.
- Visualize and strategize book launches using EON Interact.

Incident Simulation:

- Tackle challenges in book design such as typography errors or publishing bottlenecks.
- Strategically resolve these issues to ensure seamless design and publishing.

Packaging Design and Production Techniques

Dive into the captivating world of packaging design and production techniques using the EON AI Assistant. Uncover the science behind packaging materials, explore innovative design concepts, and understand the production intricacies that bring products to life.

Knowledge Portal with Floating Annotations:

- Hero image representing a collection of iconic product packages.
- 10 floating knowledge portals detailing:
    - History and evolution of packaging.
    - Fundamentals of packaging design.
    - Material selection and sustainability.
    - Production techniques and machinery.
    - Branding and marketing through packaging.
    - Technological innovations in packaging.
    - Packaging for different industries (food, cosmetics, electronics).
    - Consumer psychology and package design.
    - Future trends in packaging.
    - Environmental implications and eco-friendly packaging.

3-D Model Integration:

- Experience a 3-D model of a modern packaging production line.
- Discover models of packaging prototypes, machinery, and innovative materials.
- Option to input personal packaging designs and visualize them in augmented reality.

Annotations for the 3-D Model:

- Annotations detailing machinery functions, packaging materials, and design principles.
- IntelliScan offering insights into the science and art of packaging.

Assessment Creation:

- Quizzes on packaging design theories, production methods, and market implications.
- Challenges tasking students with designing innovative packages or identifying materials based on their properties.

AI Generated Universal Skill Simulator:

- Delve into the comprehensive process of packaging design and production.
- AI-powered 3-D animations showcasing package conceptualization, design refinement, and production.
- Design and produce virtual packaging, receiving AI critiques and suggestions.

Interactive Simulation Scenarios:

- Engage with AI-driven scenarios like a sustainable packaging brainstorm or a product relaunch packaging strategy.
- Design and prototype packaging solutions using EON Interact.

Incident Simulation:

- Address common challenges in packaging, such as material failures or design inconsistencies.
- Develop innovative solutions to ensure optimal packaging design and production.

Faculty of Metallurgy

Metal and Material Science

Metal Processing and Forming in VR

Immerse yourself in the world of metal processing and forming using Virtual Reality. Understand the transformation of raw metals into desired forms and shapes in a comprehensive and interactive environment.

Knowledge Portal with Floating Annotations:

- Display a hero image of a metal processing facility.
- 10 floating knowledge portals addressing:
    - Introduction to metal processing.
    - Different metal forming techniques.

- Importance of temperature in metal forming.
- Various metals and their properties.
- Techniques like rolling, forging, and extrusion.
- Impact of processing on metal strength.
- Tools and machines used in metal processing.
- Safety measures in a processing facility.
- Modern innovations in metal forming.
- Environmental concerns in metal processing.

3-D Model Integration:

- Experience a 3-D replica of a metal processing unit, showcasing machinery, tools, and ongoing processes.
- Explore illustrative models of metals pre and post-processing.
- Opportunity to upload and view custom metal designs.

Annotations for the 3-D Model:

- Annotations elucidating machinery components, metal properties, and processing stages.
- IntelliScan to spotlight different metal forms and equipment functionality.

Assessment Creation:

- Quizzes centered on metal types, processing methods, and machinery usage.
- Challenges to identify specific metals based on properties or determine the correct processing technique.

AI Generated Universal Skill Simulator:

- Engage in standard metal processing and forming operations.
- Watch AI-driven 3-D animations demonstrating processes like rolling, forging, or extrusion.
- Practice and simulate metal forming activities, receiving AI assessments.

Interactive Simulation Scenarios:

- Experience AI-illustrated scenarios like a forging workshop or a metal extrusion facility.
- Simulate the transformation of a raw metal into a processed form using EON Interact.

Incident Simulation:

- Handle common challenges, like machinery malfunctions or incorrect metal processing.
- Find solutions and strategies to these issues, enhancing metal processing knowledge.

Corrosion and Surface Treatment

Immerse yourself in the intricate world of corrosion and its prevention using state-of-the-art surface treatment techniques. Experience firsthand the effects of corrosion and delve deep into augmented reality-driven methodologies for surface protection.

Knowledge Portal with Floating Annotations:

- A hero image highlighting rusted metal structures and their rejuvenated forms post surface treatment.
- 10 floating knowledge portals encompassing:
    - Basics of corrosion.
    - Different types of corrosion.
    - Chemical processes behind corrosion.
    - Surface preparation techniques.
    - Coating and painting methods.
    - Galvanization and its benefits.
    - Electroplating and electrodeposition.
    - Modern techniques in corrosion prevention.
    - Environmental effects on corrosion.
    - Corrosion in various industries.

3-D Model Integration:

- Visualize a 3-D model of corroded structures alongside treated samples.
- Explore models of surface treatment equipment and set-ups.
- Upload images of corroded objects and visualize potential treatments.

Annotations for the 3-D Model:

- Annotations explaining the different stages of corrosion, equipment functionalities, and treatment procedures.
- IntelliScan highlighting corrosion patterns and optimal treatment strategies.

Assessment Creation:

- Quizzes about the chemical principles of corrosion, treatment techniques, and environmental impacts.
- Challenges to identify corrosion types and appropriate treatments.

AI Generated Universal Skill Simulator:

- Interact with the standard procedures of corrosion identification and surface treatment.
- AI-generated animations depict the progression of corrosion and its mitigation.
- Simulate surface treatment processes, receiving feedback from AI on techniques and finishes.

Interactive Simulation Scenarios:

- AI-constructed scenarios such as a marine structure corrosion setting or automotive paint protection.
- Engage in virtual surface treatment labs, practicing techniques using EON Interact.

Incident Simulation:

- Tackle common challenges, like unexpected rapid corrosion or failed coatings.
- Strategize solutions and learn best practices in corrosion management.

Material Characterization Techniques in AR

Delve into the realm of material characterization using augmented reality. Understand material properties, analyze microscopic structures, and gain unparalleled insights using AR-driven techniques.

Knowledge Portal with Floating Annotations:

- A hero image showcasing a diverse range of materials and their microstructures.
- 10 floating knowledge portals including:
    - Introduction to material characterization.
    - Microscopy techniques.
    - Spectroscopic methods.
    - Mechanical testing.
    - Thermal analysis methods.
    - Electric and magnetic property determination.
    - Surface analysis techniques.
    - Non-destructive testing.

- AR in material characterization.
- Case studies: Advanced material research using AR.

3-D Model Integration:

- Experience 3-D models of characterization equipment, sample materials, and microscopic structures.
- Illustrative models include scanning electron microscopes, X-ray diffraction setups, and spectral analyzers.
- Upload sample material data for AR-based microscopic visualization.

Annotations for the 3-D Model:

- Annotations detailing equipment functionalities, material properties, and analysis techniques.
- IntelliScan for identifying material types and corresponding characterization methods.

Assessment Creation:

- Quizzes about various characterization techniques, material properties, and AR applications.
- Challenges to interpret spectral data, microscopy images, and more.

AI Generated Universal Skill Simulator:

- Engage with AI-guided simulations of characterization techniques.
- Visualize material properties and behaviors in AR, guided by AI avatars.
- Demonstrate understanding by performing virtual material tests.

Interactive Simulation Scenarios:

- AI-generated scenarios like a lab setting for polymer analysis or metal alloy characterization.
- Simulate material tests and interpret results using EON Interact.

Incident Simulation:

- Address challenges like equipment malfunctions or ambiguous material data.
- Develop problem-solving skills and gain proficiency in AR-based material characterization.

Journey through the foundry, experiencing the age-old art of casting combined with modern foundry technologies. Witness metal transformations, mold creations, and intricate casting processes through augmented reality.

Knowledge Portal with Floating Annotations:

- A hero image displaying a bustling foundry with molten metal and intricate casts.
- 10 floating knowledge portals covering:
    - Basics of foundry and casting.
    - Different casting processes.
    - Mold creation techniques.
    - Materials used in casting.
    - Melting and pouring methods.
    - Solidification and cooling.
    - Quality control in casting.
    - Modern automation in foundries.
    - Environmental considerations.
    - Innovations in foundry technologies.

3-D Model Integration:

- Visualize a 3-D foundry layout with furnaces, molds, and casting equipment.
- Explore models of different casts, molds, and casting defects.
- Interact with simulations of molten metal pouring and solidification.

Annotations for the 3-D Model:

- Annotations detailing the casting process, equipment functionalities, and defect identifications.
- IntelliScan highlighting different metal alloys, mold materials, and optimal casting conditions.

Assessment Creation:

- Quizzes on foundry operations, casting techniques, and material properties.
- Challenges to identify casting defects, mold types, and appropriate casting methods.

AI Generated Universal Skill Simulator:

- Immerse in standard foundry operations and casting processes.
- AI-generated animations showcase mold creations, metal pouring, and solidification.
- Engage in virtual casting scenarios, assessing quality and precision with AI feedback.

Interactive Simulation Scenarios:

- AI-driven foundry simulations like sand casting, die casting, or investment casting setups.
- Experience virtual foundry operations, from melting to casting, using EON Interact.

Incident Simulation:

- Encounter common foundry challenges, such as defective casts or furnace issues.
- Strategize solutions and optimize casting operations.

Metal Extraction and Refining Processes

Embark on an interactive exploration into the intricate world of metal extraction and refining processes. Through the EON AI Assistant, delve into the core techniques, methodologies, and innovations that have shaped the metallurgy industry.

Knowledge Portal with Floating Annotations:

- Display a hero image of a bustling metallurgical plant or molten metal being poured.
- 10 floating knowledge portals encapsulating:
    - Introduction to metal extraction.
    - Overview of ores and their significance.
    - Smelting processes.
    - Hydrometallurgical techniques.
    - Pyrometallurgical methods.
    - Electrolytic refining.
    - Innovations in metal refining.
    - Environmental and safety considerations.
    - Role of catalysts in refining.
    - Economic implications and trade of refined metals.

3-D Model Integration:

- Visualize a 3-D representation of a smelting furnace, electrolytic cells, and other refining equipment.
- Engage with illustrative models like ore deposits, refined metal bars, and refining machinery.
- Opportunity to upload personal research or models related to specific metallurgical processes.

Annotations for the 3-D Model:

- Floating annotations detailing the machinery components, ore characteristics, and refining stages.
- IntelliScan feature for recognizing different metals, ore types, and refining by-products.

Assessment Creation:

- Quizzes on ore identification, extraction methods, and refining stages.
- Challenges that ask students to sequence the refining process or identify metals based on properties.

AI Generated Universal Skill Simulator:

- Engage with standard procedures of metal extraction and refining.
- Witness AI-generated 3-D animations depicting the journey from ore to refined metal.
- Practice and analyze refining methods, with AI assessments guiding through the optimal processes.

Interactive Simulation Scenarios:

- Engage with AI-driven scenarios like a smelting process in action or an electrolytic refining setup.
- Simulate the experience of optimizing extraction yields or enhancing refining efficiencies using EON Interact.

Incident Simulation:

- Tackle common challenges in the metallurgy industry, like impurity handling, environmental concerns, or machinery malfunctions.
- Strategize and innovate to mitigate these incidents, incorporating best practices in metal extraction and refining.

Institute for Anthropological Research

Anthropology and Human Studies

Human Evolution and Paleolithic Sites in VR

Journey back in time and witness human evolution in all its glory. Through virtual reality, experience the magic of Paleolithic sites and gain a deep understanding of our ancestors' way of life.

Knowledge Portal with Floating Annotations:

- Hero image showcasing a glimpse of early humans and their habitat.
- 10 floating knowledge portals, including:
    - Introduction to human evolution.
    - Stages of hominin development.
    - Overview of the Paleolithic age.
    - Major Paleolithic sites worldwide.
    - Tools and artifacts of the early humans.
    - Climate and its impact on evolution.
    - Migration patterns and early settlements.
    - Cultural and artistic expressions in the Paleolithic era.
    - Dietary habits and hunting techniques.
    - Paleolithic rituals and ceremonies.

3-D Model Integration:

- Virtually wander through 3-D models of famous Paleolithic caves, settlements, and landscapes.
- Explore detailed models of early tools, weapons, and artistic relics.
- Opportunity to upload personal discoveries and analyze them in 3-D.

Annotations for the 3-D Model:

- Annotations providing details on cave paintings, tool uses, and early human behaviors.
- IntelliScan feature to identify artifacts and interpret their significance.

Assessment Creation:

- Quizzes on human evolutionary stages, Paleolithic lifestyles, and significant archeological discoveries.
- Tasks like artifact identification and interpreting cave art symbols.

AI Generated Universal Skill Simulator:

- Engage with standard procedures of paleoarchaeological excavations.
- Experience AI-generated 3-D animations of early human communities, their activities, and interactions.
- Participate in simulated hunts, tool-making, and ritual ceremonies, getting assessed by the AI.

Interactive Simulation Scenarios:

- AI-identified scenarios demonstrating life at Paleolithic sites.
- Virtually participate in excavation processes and artifact restoration using EON Interact.

Incident Simulation:

- Address challenges like deciphering deteriorated cave paintings or analyzing broken artifacts.
- Engage in restoration and analysis to draw meaningful conclusions.

Cultural Anthropology and Ethnographic Studies

Dive into diverse cultures and societies through immersive ethnographic studies. Explore traditions, rituals, and social structures from around the world, all presented vividly through the EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Hero image capturing a tapestry of different cultures and societies.
- 10 floating knowledge portals, including:
    - Introduction to cultural anthropology.
    - Overview of ethnography.
    - Methods of ethnographic research.
    - Major cultural groups and their unique practices.
    - Traditions, rituals, and ceremonies.
    - Social structures and hierarchies.
    - Cultural symbols and their meanings.
    - Impact of globalization on local cultures.

- Ethical considerations in ethnographic studies.
- Case studies of indigenous tribes and their lifestyles.

3-D Model Integration:

- Experience 3-D representations of traditional huts, ceremonial grounds, and cultural artifacts.
- Explore models showcasing traditional attire, musical instruments, and cultural symbols.
- Upload personal ethnographic notes and visualize them in augmented reality.

Annotations for the 3-D Model:

- Annotations elaborating on the significance of cultural relics, attire, and traditional symbols.
- IntelliScan feature to provide deeper insights into traditional practices and their origins.

Assessment Creation:

- Quizzes on cultural anthropology concepts, ethnographic methodologies, and global traditions.
- Challenges involving the identification of cultural symbols, attire, and rituals.

AI Generated Universal Skill Simulator:

- Engage with standard ethnographic research techniques.
- AI-generated animations showcasing various cultural ceremonies, dances, and traditions.
- Participate in simulated cultural events, assessing your understanding and ethnographic skills.

Interactive Simulation Scenarios:

- AI-driven scenarios displaying life in different cultural settings, from tribal gatherings to urban festivals.
- Virtually attend and document cultural events, traditions, and rituals using EON Interact.

Incident Simulation:

- Tackle challenges like cultural misunderstandings or navigating sensitive ethnographic topics.

- Engage in constructive dialogue and ethnographic research to build bridges and foster understanding.

Biological Anthropology and Genetics in AR

Uncover the biological intricacies of human evolution and dive into the world of genetics. Experience the wonders of our DNA, our ancestral lineage, and the factors that make us uniquely human, all in augmented reality.

Knowledge Portal with Floating Annotations:

- Hero image highlighting DNA helix and skeletal evolution.
- 10 floating knowledge portals:
    - Introduction to biological anthropology.
    - The human genome and DNA sequencing.
    - Evolutionary biology and its relation to anthropology.
    - Human skeletal structure and its evolution.
    - Genetic mutations and their impacts.
    - Evolutionary adaptations to environment.
    - Genetics of human migration patterns.
    - Human reproduction and genetic inheritance.
    - Genetic diseases and their history.
    - Case studies of significant genetic discoveries.

3-D Model Integration:

- AR experience of the DNA helix, chromosomes, and detailed human skeletal models.
- Explore models of early human skulls, bone structures, and genetic mutations.
- Opportunity to visualize personal DNA sequences in augmented reality.

Annotations for the 3-D Model:

- Annotations detailing parts of the DNA, skeletal structures, and significant genetic markers.
- IntelliScan feature for in-depth insights into genetic sequences and their significance.

Assessment Creation:

- Quizzes on human genetics, evolutionary biology, and skeletal anatomy.

- Challenges involving DNA sequencing, identifying skeletal parts, and tracing genetic lineages.

AI Generated Universal Skill Simulator:

- Engage with standard processes of genetic research and anthropological studies.
- Experience AI-generated animations showing DNA replication, skeletal growth, and evolutionary adaptations.
- Simulate genetic experiments, analyzing DNA sequences and studying skeletal structures.

Interactive Simulation Scenarios:

- AI scenarios showcasing DNA labs, anthropological digs, and genetic mutation impacts.
- Study genetic samples, conduct virtual dissections, and analyze evolutionary patterns using EON Interact.

Incident Simulation:

- Navigate challenges like genetic anomalies, unidentified skeletal remains, or understanding extinct genetic traits.
- Engage in research, analysis, and collaborative discussions to find solutions and insights.

Anthropological Fieldwork and Research Techniques

Step into the shoes of an anthropologist and master the art of fieldwork. Learn research techniques, ethnographic documentation, and the ethics of field studies, brought to life through the EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Hero image showcasing anthropologists at work in diverse settings.
- 10 floating knowledge portals:
    - Introduction to anthropological fieldwork.
    - Essentials of ethnographic research.
    - Tools and equipment for field studies.
    - Documentation and data collection techniques.
    - Participant observation and its significance.
    - Conducting interviews and surveys in the field.

- Analyzing and interpreting field data.
- Ethical considerations in anthropological research.
- Challenges in fieldwork and solutions.
- Case studies of impactful anthropological research.

3-D Model Integration:

- Explore 3-D models of fieldwork sites, research camps, and indigenous communities.
- Engage with models showcasing tools like voice recorders, cameras, and anthropological kits.
- Opportunity to recreate personal field experiences in augmented reality.

Annotations for the 3-D Model:

- Annotations detailing tools, ethnographic symbols, and nuances of field settings.
- IntelliScan feature for insights into anthropological methods, tools, and research findings.

Assessment Creation:

- Quizzes on fieldwork techniques, research methodologies, and ethnographic tools.
- Challenges around mock fieldwork, data collection, and interpreting research findings.

AI Generated Universal Skill Simulator:

- Engage with standard fieldwork practices and ethnographic research techniques.
- AI-generated animations of anthropologists at work, interviews in progress, and community interactions.
- Engage in simulated fieldwork scenarios, from setting up camps to conducting interviews.

Interactive Simulation Scenarios:

- AI-driven scenarios showcasing diverse fieldwork settings, from remote villages to urban societies.
- Virtually participate in field studies, data collection, and ethnographic research using EON Interact.

Incident Simulation:

- Address challenges like cultural misunderstandings, logistical hurdles, or research dilemmas.
- Collaborate with peers, seek insights, and innovate solutions for effective fieldwork.

Social Change and Cultural Adaptations

Delve into the dynamic interplay of social change and cultural adaptations. Understand how societies evolve, adapt, and react to changing circumstances, all visualized vibrantly through the EON AI Assistant.

Knowledge Portal with Floating Annotations:

- Hero image portraying a juxtaposition of ancient and modern societies.
- 10 floating knowledge portals:
    - Introduction to social change and its drivers.
    - The role of technology in societal evolution.
    - Economic factors influencing cultural adaptations.
    - Political dynamics and their impact on societies.
    - Environmental factors and cultural responses.
    - Urbanization and its effects on cultural landscapes.
    - Globalization and its implications for traditional cultures.
    - Resistance, resilience, and revivals in cultures.
    - Ethical considerations in the study of social change.
    - Case studies showcasing societies in transition.

3-D Model Integration:

- Experience 3-D models of evolving cityscapes, changing landscapes, and cultural shifts.
- Engage with models showcasing technological innovations, traditional to modern transitions, and societal changes.
- Upload personal observations of social changes and visualize them in augmented reality.

Annotations for the 3-D Model:

- Annotations highlighting cultural symbols, technological advancements, and social dynamics.
- IntelliScan feature offering insights into societal shifts, cultural adaptations, and transformative events.

Assessment Creation:

- Quizzes on societal transformations, factors driving social change, and cultural adaptations.
- Tasks like analyzing societal transitions, understanding cultural shifts, and predicting future trends.

AI Generated Universal Skill Simulator:

- Engage with standard methodologies for studying social change and cultural adaptations.
- AI-generated animations of societies in transition, from technological revolutions to cultural resurgences.
- Engage in simulated interactions, understanding the nuances of societal changes and cultural shifts.

Interactive Simulation Scenarios:

- AI scenarios visualizing diverse societal transformations, from industrial revolutions to digital ages.
- Virtually study, interact, and analyze changing societies, their dynamics, and adaptations using EON Interact.

Incident Simulation:

- Address challenges like cultural resistance, societal backlashes, or interpreting rapid societal changes.
- Engage in analysis, discussions, and solutions to navigate the complex world of social change and cultural adaptations.

Institute of Philosophy

Philosophy and Thought

History of Philosophy in VR

Embark on a virtual journey through time, exploring the evolution of philosophical thought. Using VR, immerse yourself in the environments and eras that shaped philosophical doctrines and engage with the luminaries who paved the path of intellectual inquiry.

Knowledge Portal with Floating Annotations:

- A hero image depicting an ancient library or a gathering of philosophers.
- 10 floating knowledge portals covering:
    - Pre-Socratic philosophy.
    - Classical Greek philosophy.
    - Medieval scholasticism.
    - Renaissance humanism.
    - Enlightenment thinkers.
    - 19th-century philosophy.
    - Existentialism.
    - Eastern philosophies.
    - African and Indigenous philosophies.
    - Modern and post-modern thought.

3-D Model Integration:

- Engage with 3-D renditions of historical settings, from Plato's Academy to modern-day lecture halls.
- Models of ancient scrolls, philosophical books, and interactive timelines.

Annotations for the 3-D Model:

- Annotations highlighting important philosophical texts, concepts, and figures.
- IntelliScan feature identifies key philosophical artifacts and icons.

Assessment Creation:

- Quizzes on different eras of philosophy, major thinkers, and pivotal philosophical works.
- Challenges to identify philosophical ideas associated with different periods or philosophers.

AI Generated Universal Skill Simulator:

- Experience standard historical events or discourses that shaped philosophical thought.
- Watch AI-driven recreations of famous philosophical debates and dialogues.

Interactive Simulation Scenarios:

- AI-identified scenarios of a philosophical salon, academy discussions, or public debates.

- Explore the influence of socio-political events on philosophical thought using EON Interact.

Incident Simulation:

- Engage with challenges or controversies that philosophers faced, like Socrates' trial or Nietzsche's critiques.
- Analyze and reflect upon these incidents for deeper understanding.

Ethics and Moral Philosophy Simulations

Dive deep into the intricacies of moral dilemmas, ethical theories, and the nature of right and wrong. Using simulations, evaluate real-world scenarios and engage in debates that test your ethical compass.

Knowledge Portal with Floating Annotations:

- A hero image showcasing a moral dilemma or an iconic ethical philosopher.
- 10 floating knowledge portals discussing:
    - Virtue ethics.
    - Deontological ethics.
    - Utilitarianism.
    - Relativism and absolutism.
    - Bioethics.
    - Environmental ethics.
    - Social and political ethics.
    - Ethics of war and peace.
    - Business ethics.
    - Contemporary ethical debates.

3-D Model Integration:

- Experience ethical scenarios in 3-D, from medical ethics situations to business dilemmas.
- Models depicting moral philosophers and their iconic works.

Annotations for the 3-D Model:

- Annotations explaining ethical theories, key principles, and significant ethical debates.
- IntelliScan feature identifying prominent moral philosophers and their doctrines.

Assessment Creation:

- Quizzes on ethical theories, moral philosophers, and real-world ethical scenarios.
- Challenges that ask students to solve moral dilemmas based on ethical principles.

AI Generated Universal Skill Simulator:

- Engage with standard ethical debates and discussions.
- AI-guided simulations of ethical decision-making in various scenarios.

Interactive Simulation Scenarios:

- AI-driven scenarios on pressing ethical issues, from AI ethics to climate change.
- Engage in ethical decision-making simulations using EON Interact.

Incident Simulation:

- Confront controversial ethical incidents, from medical decisions to corporate scandals.
- Reflect and discuss possible ethical solutions and outcomes.

Metaphysics and Philosophy of Science

Delve into the fundamental nature of reality, the intertwining of philosophy and science, and the questions that have haunted humanity for millennia. Engage with the abstract concepts that define existence, causality, and the universe.

Knowledge Portal with Floating Annotations:

- A hero image of the cosmos or an abstract representation of existence.
- 10 floating knowledge portals discussing:
    - The nature of being and existence.
    - Causality and determinism.
    - Space and time.
    - Object and their properties.
    - The philosophy of mind.
    - The nature of science and scientific explanation.
    - The demarcation problem.
    - Realism and anti-realism.
    - The problem of induction.
    - Paradigm shifts and scientific revolutions.

3-D Model Integration:

- Engage with 3-D visualizations of abstract concepts like time, space, and consciousness.
- Models representing iconic philosophers like Kant, Heidegger, or Popper.

Annotations for the 3-D Model:

- Annotations elaborating on metaphysical concepts, philosophical standpoints, and scientific methodologies.
- IntelliScan feature identifying key figures in metaphysics and philosophy of science.

Assessment Creation:

- Quizzes on metaphysical doctrines, the philosophy of science, and the intersection of the two.
- Challenges to engage with abstract metaphysical problems and scientific debates.

AI Generated Universal Skill Simulator:

- Engage with simulations exploring concepts like the nature of time, the multiverse, or the mind-body problem.
- AI-driven animations illustrating complex metaphysical and scientific concepts.

Interactive Simulation Scenarios:

- AI scenarios exploring the evolution of scientific thought and its metaphysical implications.
- Use EON Interact to engage in debates on topics like determinism vs. free will or the nature of reality.

Incident Simulation:

- Confront incidents that challenge our understanding of reality, from quantum mechanics to consciousness debates.
- Analyze and discuss these incidents for a richer grasp of metaphysics and science.

Navigate the landscape of modern philosophy, understanding the currents that shape contemporary thought. Through augmented reality, interact with the movements, ideas, and debates that define philosophy today.

Knowledge Portal with Floating Annotations:

- A hero image of a modern-day philosophical gathering or a symbolic representation of contemporary thought.
- 10 floating knowledge portals elucidating:
    - Post-modernism.
    - Critical theory.
    - Feminist philosophy.
    - Environmental philosophy.
    - Analytic vs. Continental philosophy.
    - Post-colonial philosophy.
    - Philosophy of technology.
    - Bioethics and medical philosophy.
    - Philosophy of mind and AI.
    - Current debates in epistemology and metaphysics.

3-D Model Integration:

- AR experiences showcasing modern philosophical schools, thinkers, and debates.
- Models of philosophical gatherings, contemporary philosophers, and symbolic representations of modern doctrines.

Annotations for the 3-D Model:

- Annotations detailing modern philosophical movements, key ideas, and ongoing debates.
- IntelliScan feature pinpointing influential contemporary philosophers and their works.

Assessment Creation:

- Quizzes on current philosophical movements, central figures, and pressing philosophical issues.
- Engage with AR scenarios that test understanding of modern philosophical debates and ideas.

AI Generated Universal Skill Simulator:

- Interact with simulations that depict the evolution of contemporary philosophical thought.
- AI-driven animations that bring to life modern philosophical debates and discussions.

Interactive Simulation Scenarios:

- AI scenarios that provide insights into current philosophical trends, from digital ethics to the philosophy of gender.
- Use EON Interact to participate in modern philosophical debates and discussions.

Incident Simulation:

- Analyze contemporary philosophical incidents, from public debates to controversial publications.
- Reflect upon these incidents for a deeper grasp of the direction of modern philosophical thought.

Logic and Critical Thinking Exercises

Hone your skills in logical reasoning, argument analysis, and critical evaluation. Through interactive exercises, delve into the principles of logic and engage with scenarios that challenge your thinking capacities.

Knowledge Portal with Floating Annotations:

- A hero image of a logical diagram or a philosopher engaged in deep thought.
- 10 floating knowledge portals discussing:
    - Principles of logic.
    - Deductive vs. Inductive reasoning.
    - Logical fallacies.
    - Argument structure and analysis.
    - Critical evaluation techniques.
    - Bias and prejudice in reasoning.
    - Heuristics and cognitive biases.
    - The scientific method and skepticism.
    - Ethical reasoning and moral dilemmas.
    - Contemporary challenges in logic and reasoning.

3-D Model Integration:

- Interact with 3-D logical diagrams, puzzles, and reasoning challenges.
- Models of famous logicians and philosophers who contributed to logical thought.

Annotations for the 3-D Model:

- Annotations that explain logical principles, fallacies, and reasoning techniques.
- IntelliScan feature that identifies key logical concepts and their implications.

Assessment Creation:

- Quizzes on logical principles, fallacies, and reasoning challenges.
- Exercises that test logical reasoning and critical thinking capacities.

AI Generated Universal Skill Simulator:

- Engage with simulations that challenge logical reasoning and critical evaluation.
- AI-guided exercises that provide instant feedback on logical prowess and reasoning abilities.

Interactive Simulation Scenarios:

- AI scenarios that pose logical challenges, from solving puzzles to evaluating complex arguments.
- Use EON Interact to dissect arguments, identify fallacies, and hone reasoning skills.

Incident Simulation:

- Analyze incidents that test logical reasoning, from controversial debates to ethical dilemmas.
- Reflect upon these incidents to sharpen logical capacities and critical thinking skills.