

PURPOSE OF THE APP

• Purpose of the App: "NextGenEd is designed to transform how we learn from digital content. By integrating cuttingedge AI, we aim to provide instant educational insights through image and voice recognition technologies."

TARGET AUDIENCE

• Target Audience: "Ideal for students, educators, and lifelong learners seeking interactive and accessible learning tools."

BRIEF OVERVIEW

• **Brief Overview:** "The app leverages LLaVA AI model for image analysis, Whisper AI for audio processing, gTTS for providing an audible version of the AI's text output, Web-Search API for finding and suggesting articles related to the AI's insights, and Gradio UI (user interface) to deliver a seamless user experience."

OVERVIEW OF NEXTGENED APP

CORE FEATURES



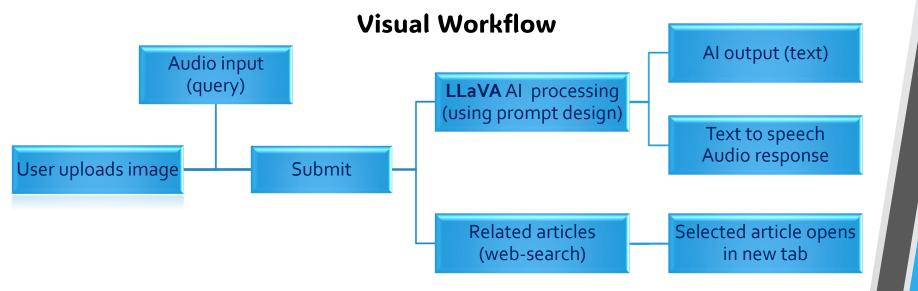
Upload an Image: Users can upload any educational image, such as diagrams or photos, to receive detailed explanations and insights.

Voice input (Speech to Text): Speak directly to the app to ask questions related to the image content, and our Whisper AI technology will convert your speech to text for processing.

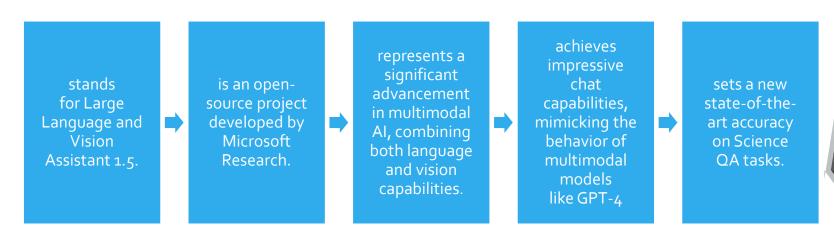
Al-Driven Insights: The LLaVa Al model analyzes images and generates detailed textual information about the depicted subjects, enhancing learning and understanding.

Audio Response (Text to Speech): The Algenerated output is also accessible through an audio response. Just click 'play' to listen.

Discover More: Delve deeper by following hyperlinks to associated articles.



Pioneering AI for In-Depth Image Analysis: LLaVA 1.5



Navigating the E-Learning Journey

The model LLaVA 1.5 is designed to understand and process both textual and image-based context, making it a powerful tool for various applications.

UNVEILING THE TECH

LLaVA 1.5: LLaVA AI model, through meticulous prompt design thoroughly examine images to explain the depicted concepts, identify topics and fields of study, providing a deep dive into each element within an image. Whether it's text, or symbols or any visual representation, LLava offers comprehensive explanations that enhance understanding, catering to both novices and experts.

Whisper AI: Whisper AI is our audio processing powerhouse, converting spoken words into written text with precision. It facilitates audio input, ensuring that voice interactions are transcribed accurately for further analysis by the system.

Gradio UI: Gradio UI serves as the gateway to our application, providing an intuitive and interactive interface. It allows easy uploading of images and audio and displays the AI-generated content in a user-friendly manner.

gTTS (Google Text-to-Speech): Complementing our AI suite, gTTS provides the text-to-speech capability, transforming the AI-generated textual analysis into spoken words. This ensures that users can receive audio feedback, making the educational content accessible and convenient.

Web-Search Integration (Bing Web Search API): To enrich the educational journey, we integrate with advanced web search functionalities that dynamically suggest articles related to the AI's insights. This feature guides users to relevant reading material, facilitating a comprehensive learning experience.

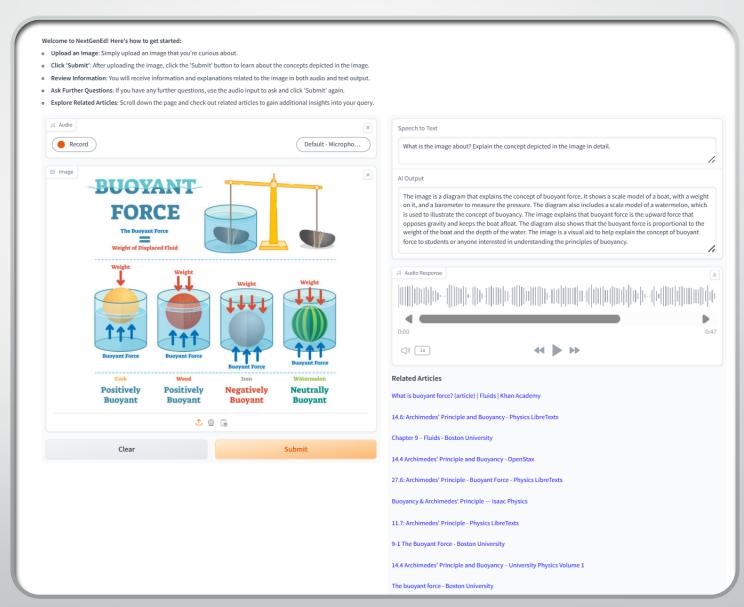
THE TECHNOLOGY BEHIND NEXTGENED

QUICK DEMONSTRATION: STEP 1

User uploads image and clicks on 'Submit' button.

Directed to default query:
"What is the image about?
Explain the concept
depicted in the image in
detail."

User receives the AI output (text), Audio response and hyperlinks to related articles.

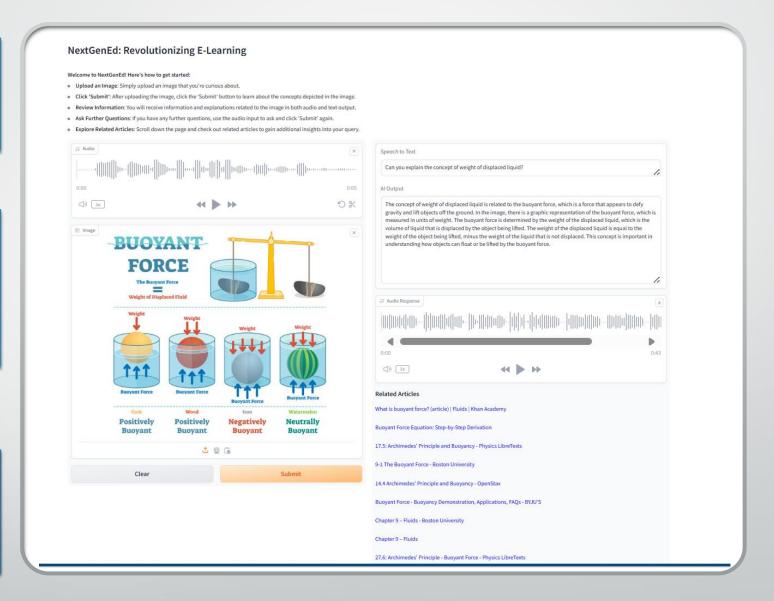


STEP 2

User submits another query through audio input.

Speech to Text displays the user's query: "Can you explain the concept of displaced liquid?"

User receives the AI output (text), Audio response and hyperlinks to related articles.



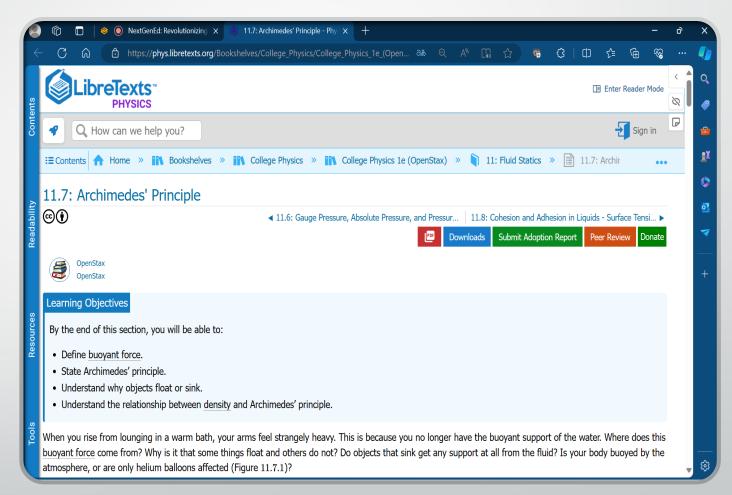
USER CAN CONTINUE ASKING MORE QUESTIONS.

EXPLORE RELATED ARTICLES

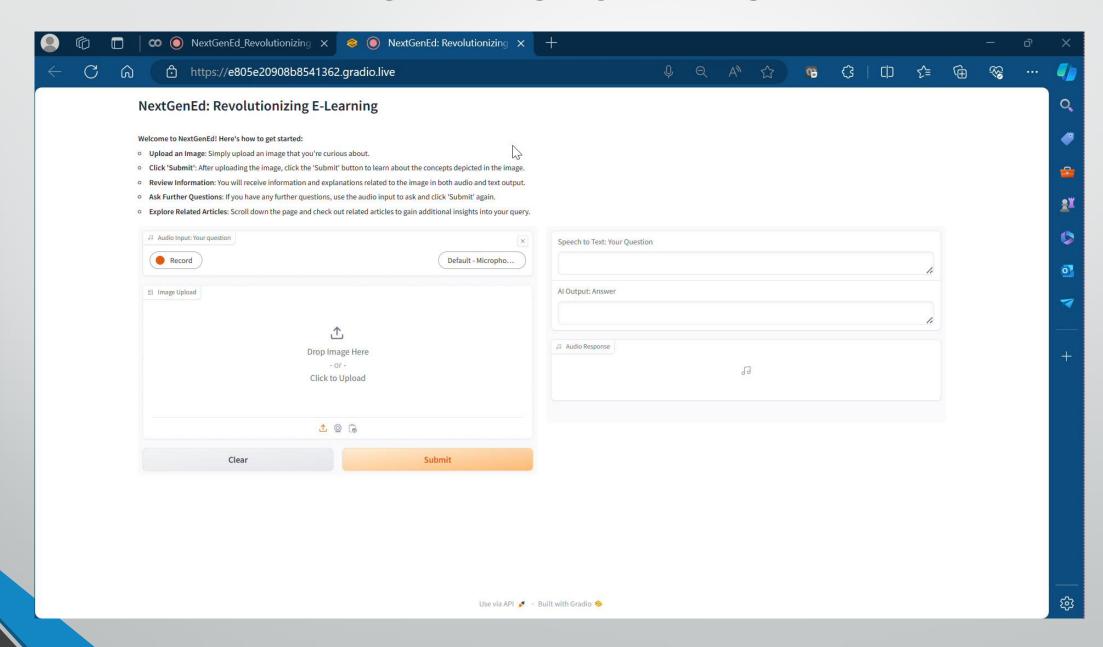
Deepening Knowledge:

Beyond providing initial insights, the app (LLaVA Al model) detects the main concept in the image and based on this concept, the app (through web search) presents a list of related articles. This functionality broadens the range of learning materials available, allowing users to delve deeper into their topics of interest and expand their understanding.

Each selected hyperlink opens the corresponding article in a new tab, facilitating an uninterrupted and deeper exploration of the topic.



VIDEO DEMONSTRATION



Educational Value: "Deepen your understanding of complex subjects through rich visual and textual analysis."

Accessibility: "Makes learning accessible to users with different needs, providing auditory and visual learning aids."

Engagement: "Interactive features keep users engaged and make learning a dynamic and active process."

BENEFITS OF USING NEXTGENED



Planned Features: "Looking ahead, we're excited to expand NextGenEd's capabilities with multilingual support to reach a global audience, integration with educational databases for enriched resources, and personalized learning pathways that adapt to individual user needs."



Feedback Loop: "Your insights drive our innovation. We are looking forward to continuously refine NextGenEd based on your feedback, ensuring that our solutions meet diverse educational demands and enhance user satisfaction."

FUTURE ENHANCEMENTS

JOIN ON THE FOREFRONT OF EDUCATIONAL TECHNOLOGY!

THANK YOU!

TRY NEXTGENED APP