

Barriers to accessible, interactive learning.



EduSage

Presented By BUILD WHEELS

PROBLEM STATEMENT

Language Barriers in Education:

- Limited access to educational resources in non-native languages.
- Challenges for ESL students in understanding complex materials.

Inefficient Manual Content Creation:

- Time-consuming process of creating and maintaining consistent content across platforms.
- Difficulty in generating high-quality, engaging educational materials.

Complex Information Simplification:

- Students struggle with digesting lengthy or intricate content.
- Lack of tools to effectively summarize and interact with educational materials.

Lack of Professional Profile-Building Tools for Students:

- Difficulty in showcasing skills and achievements.
- Limited opportunities for networking and career advancement.

SOLUTION OVERVIEW

YOUTUBE TRANSLATION & Q&A:

Translate videos and generate interactive questions from video links.

DOCUMENT INTERACTION:

Upload teacher's notes,
PDFs, and receive generated
questions for study and
discussion.

VIRTUAL BOARD:

Interactive tool for collaborative teaching and learning among students.

PROFESSIONAL DEVELOPMENT:

Automated LinkedIn and Twitter post generation to enhance online presence.

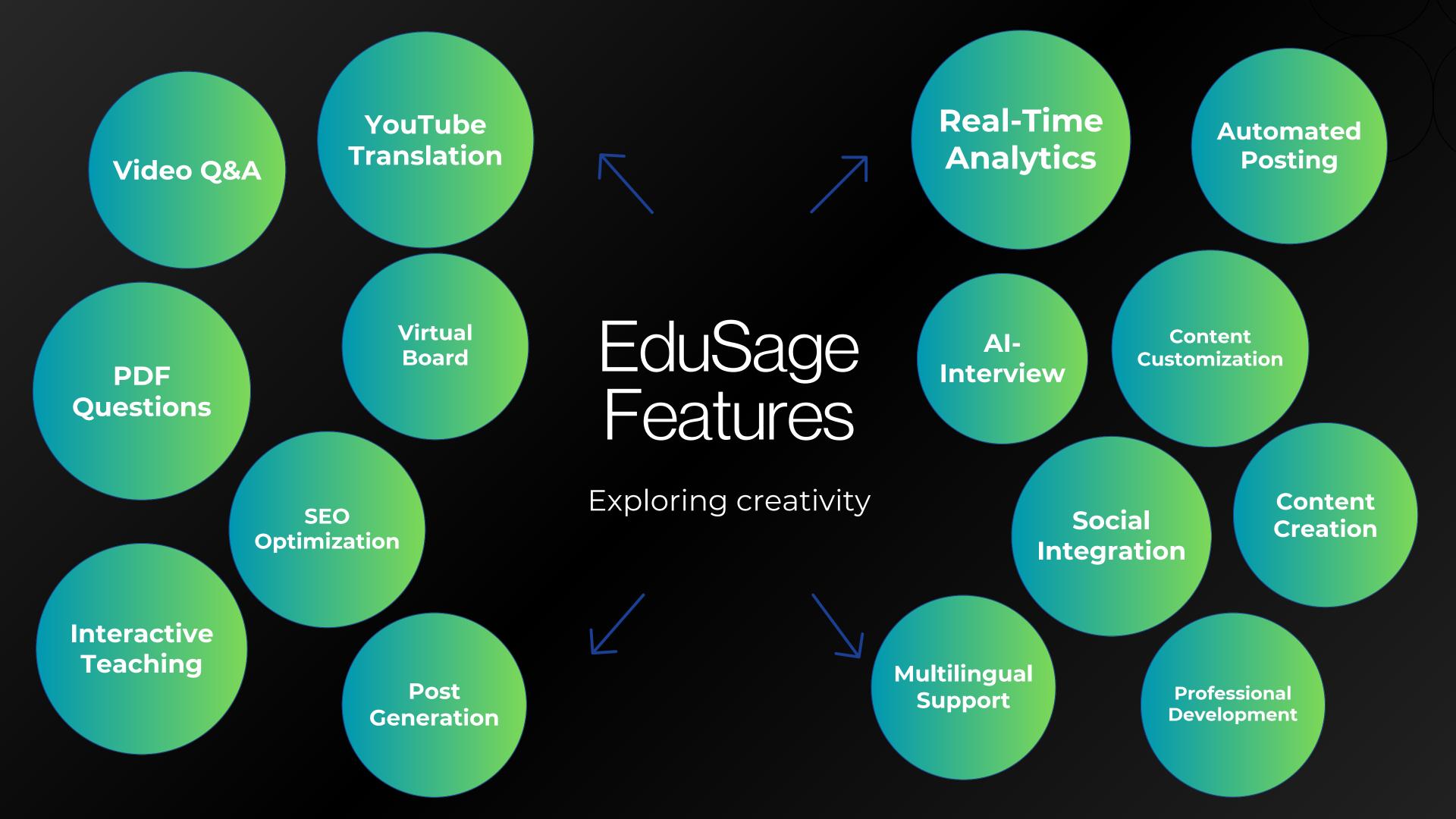
Key Benefits:

Enhanced accessibility to educational content.

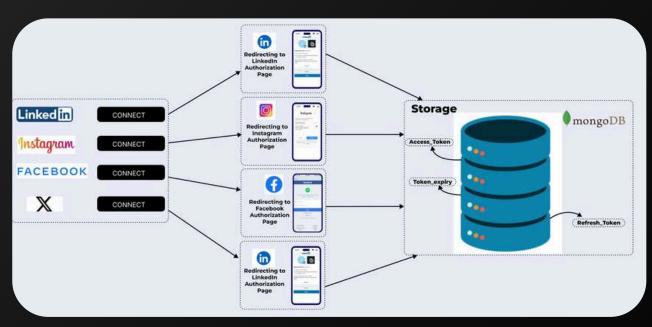
Streamlined and automated content creation.

Improved understanding through interactive learning tools.

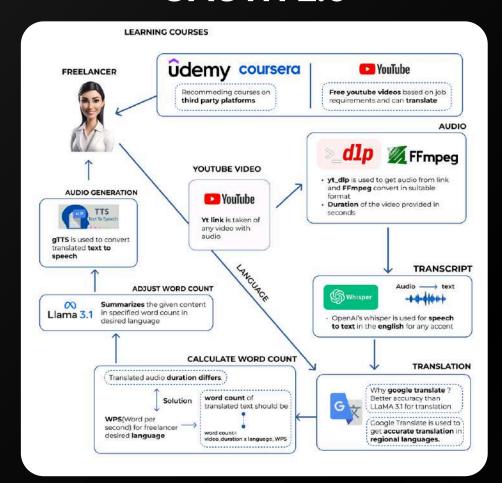
Enhanced professional visibility and career opportunities for students.



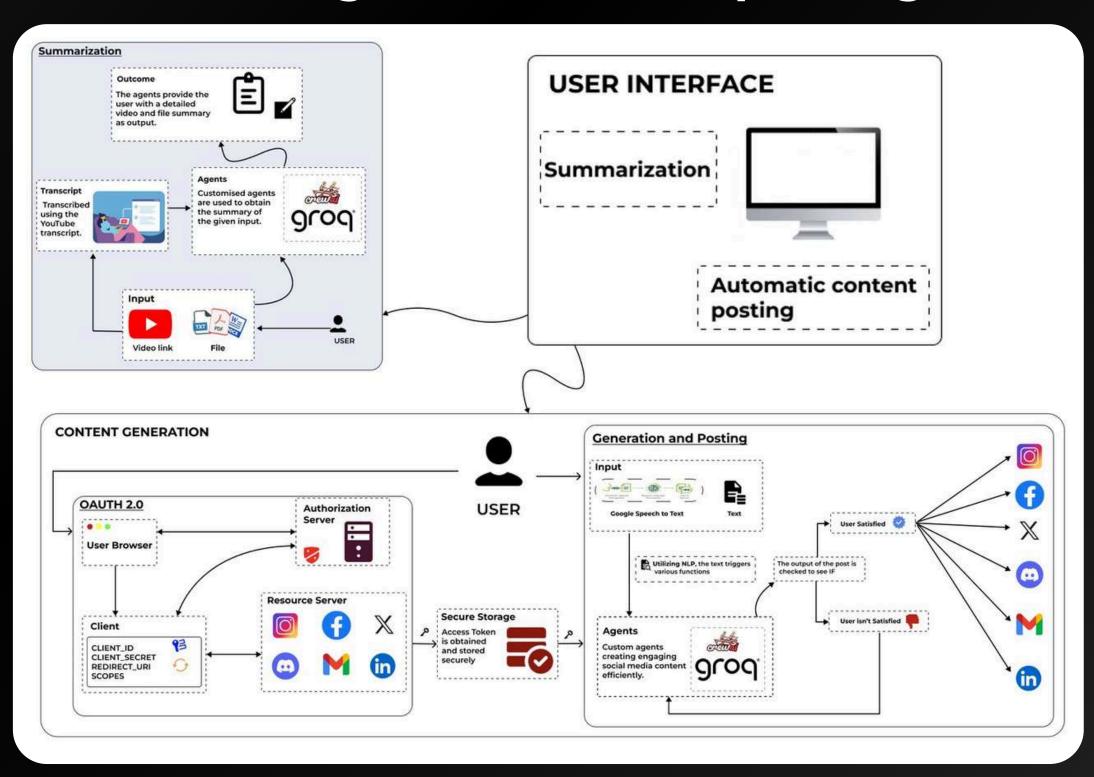
TECHNICAL ARCHITECTURE



OAUTH 2.0

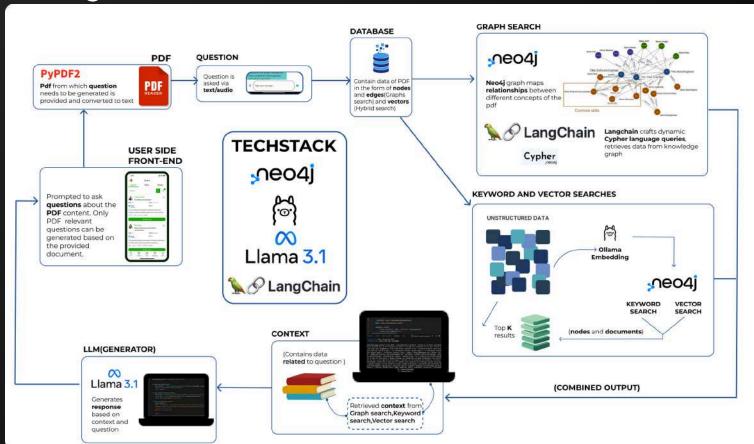


Content generation and posting

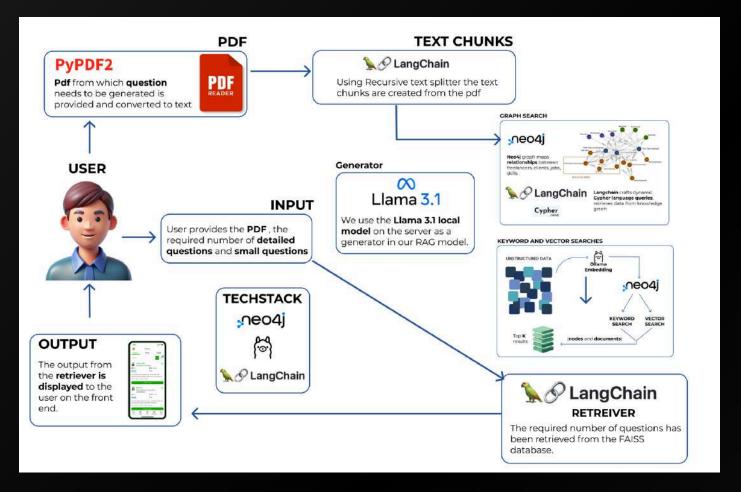


YouTube content translation

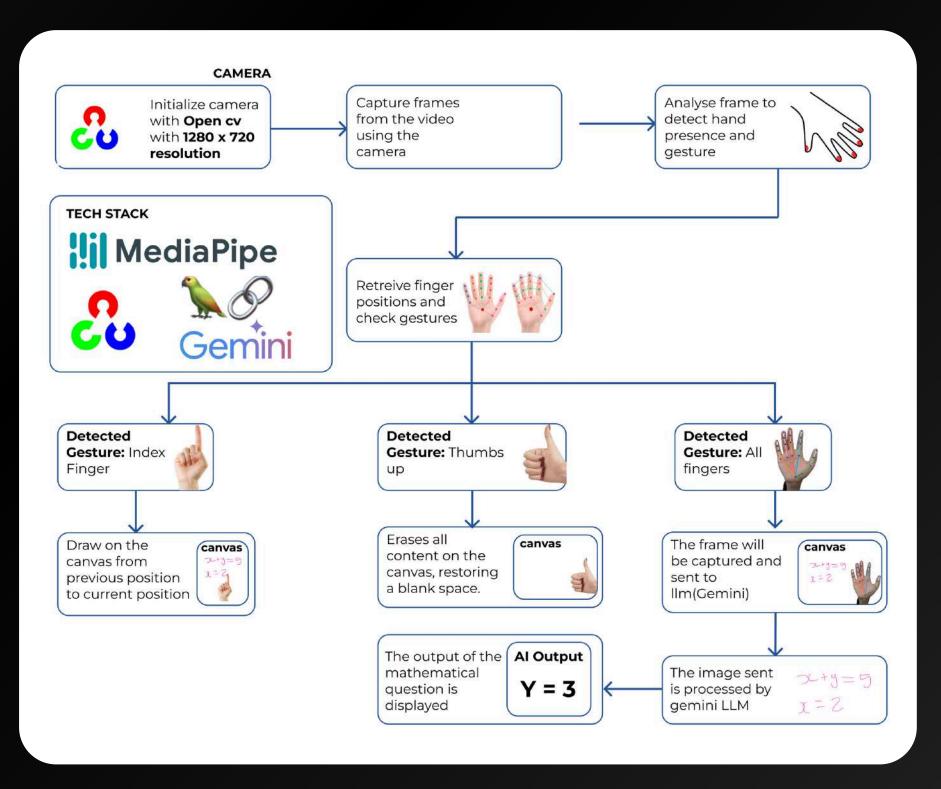
PDF Question Generator Architecture



Chat with PDF

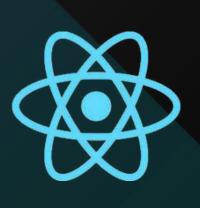


Virtual Board



TECH STACK







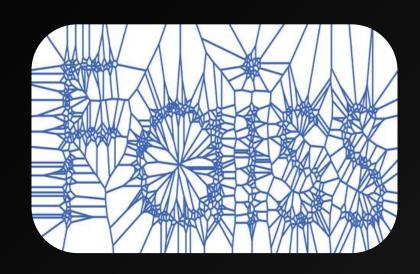














DEPENDENCIES

Programming & Frameworks

- Python, JavaScript (React, React Native)
- Flask for backend

AI & Machine Learning

- NLP, Speech-to-Text APIs, TensorFlow,
- Google Al APIs for generative tools, Whisper (local model)

Cloud Services & Hosting

- Google Cloud, Firebase
- Docker for deployment

Database & Storage

- MongoDB, Faiss
- Amazon S3 for media files

APIs & Integration

LinkedIn, Twitter, YouTube, Google
 Translate APIs

Frontend Libraries & Tools

Magic.Design, Shadon UI, Redux/MobX

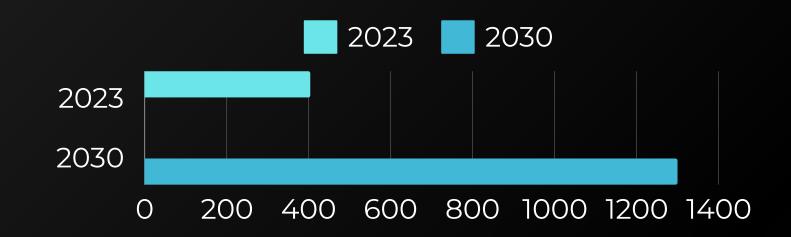
Version Control & CI/CD

GitHub, Docker

MARKET OPPORTUNITY

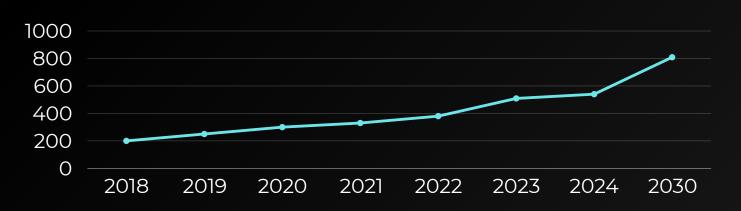
Education Technology (EdTech) Market:

- Current Market Size: \$404 billion (2023)
- Projected Growth: CAGR of 16.3%, reaching \$1,300 billion by 2030



Professional Development Market:

- Market Size: \$200 billion globally
- Increasing demand for online professional development tools



Target Audience:



Educators and Institutions Content Creators and Marketers

Geographical Reach:



- Initial focus on India and its large student base
- Expansion to Asia-Pacific,
 Europe and other
 emerging markets



TEAM OF BUILD WHEELS



Amrish P

Rajalakshmi Engineering College

An entrepreneurial leader, first agency at 15 managing a team of 10, excels in web development and embraces diverse challenges, driving impactful solutions.



Fazil S

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Fazil is an aspiring Full Stack Developer, Experienced Front-end Developer, Passionate About Delivering High-Quality Solutions



Daniel Das K

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Daniel excels in genAI, Computer Vision, Deep Learning, and ML, ranked top 100 in Google Solutions Challenge addressing tech challenges



Dheekshith T

Rajalakshmi Engineering College

Dheekshith, experienced in ML, DL, and genAl, leads disciplined teams to tackle challenges with impactful solutions.



Kindly check out our additional document that gives a detailed overview





Click here to view the YouTube video explanation of EduSage

