

Presentation
on
**AI Powered Personalized Tour
System**

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INTRODUCTION

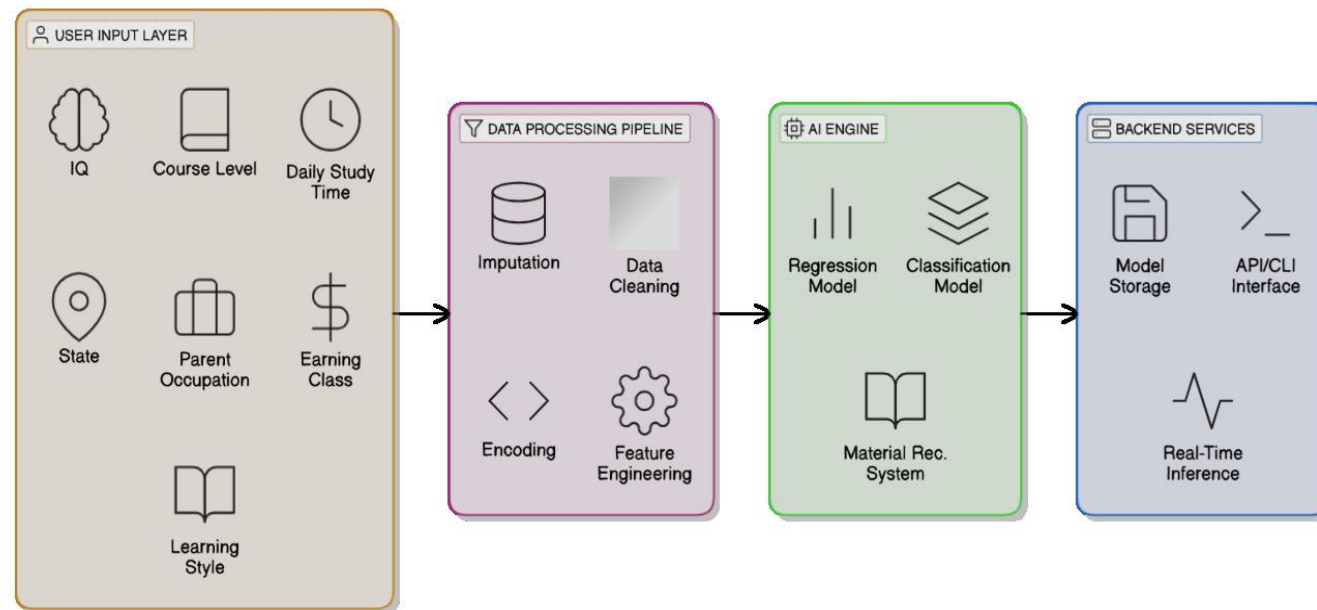
- Digital platforms have improved access to education but often lack personalization
- One-size-fits-all systems lead to uneven outcomes and low student engagement
- This project builds an adaptive learning platform for K–12 using machine learning
- It personalizes content and adjusts learning paths based on individual progress
- Tracks student performance and predicts academic outcomes in real-time
- Offers tailored resources and timely support for each learner
- Aims to make education more inclusive, effective, and engaging
- Supports diverse learning styles, paces, and backgrounds

PROBLEM STATEMENT

- Many students struggle with digital platforms that don't adapt to their learning speed, style, or comprehension level
- Lack of real-time feedback and structured guidance makes it hard for students to track progress or improve
- This project aims to solve these issues with an AI-powered platform offering personalized content and intelligent support

PROPOSER SYSTEM ARCHITECTURE

- Developed a multi-phase AI solution using synthetic data, exploratory analysis, and machine learning to personalize K–12 learning.
- Implemented Random Forest and XGBoost models for predicting student scores and curriculum levels, achieving high accuracy and actionable insights.
- The platform provides intelligent recommendations based on user input, enabling adaptive and data-driven learning support.



CONCLUSION

- The system offers a data-driven approach to deliver personalized learning experiences.
- Machine learning models effectively predict assessment outcomes and recommend suitable curriculum levels.
- Empowers students and educators to make informed, strategic decisions.
- Designed for scalability, flexibility, and integration into existing educational platforms.
- Supports future enhancements like intelligent content recommendations, real-time feedback, and multilingual access.
- Promotes adaptive, inclusive, and continuous academic growth across diverse learning environments.