



Recommendation Systems for Personalized Learning

Enhancing engagement & maximizing learning outcomes...

How this recommendation can transform education by delivering customised learning experiences, addressing key challenges and leveraging cutting-edge technology.

➤ Problems And Solutions



not getting individualized attention



- AI-Powered personalize feedback and support
- virtual tutors or chat box
- peer to peer learning and collaboration
- communication and interaction features



lack of engagement



- interactive and immersive content
- gamification & reward and creative & engaging contents
- virtual study groups and collaborative projects
- choice and control over some extent



struggle to find relevant learning material



- advanced search and filtering
- intelligent tagging and categorization
- personalized recommendation
- pre-defined or personalized paths and curated collection
- visualization and mind mapping
- bookmarking and saving features



difficulty in tracking performance and areas for improvement



- detailed progress dashboard
- weekly performance report and analytics
- goal setting and progress tracking
- reflection and self assessment tools

How it works !!!!!

“The system analyzes students interaction, learning preferences, and performance data to generate personalized recommendations, creating a dynamic and engaging learning experience.”



user profile creation



content analysis



recommendation generation



feedback & adjustment



progress tracking & reporting



TECH STACK



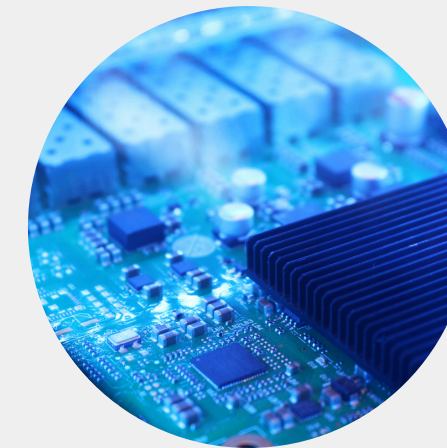
FRONTEND

React and Vue.js
for a responsive
user interface



BACKEND

python(Flask/
Dango) for API



DATABASE

PostgreSQL or
MongoDB



MACHINE LEARNING

Sckrit-Irarn or PyTorch



CLOUD

AWS OR GCP



GAMIFICAT- ION

XP system



THANK YOU!!!

~Kankshi Patle

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