

Problem Statement 4- AI-Driven Personalized Learning Assistant

Problem Statement:

Educational institutions in semi-urban and rural areas face difficulties providing personalized learning. We seek an AI system that adapts to each student's learning pace, identifies knowledge gaps, and gives real-time feedback accessible via affordable devices.

Background:

Traditional teaching methods do not fully address diverse student needs in engineering education, especially outside urban centers.

Problem:

How can we develop a scalable AI platform that personalizes education, integrates with digital classrooms, and functions efficiently on low-cost devices even in low connectivity settings?

Desired Outcome:

An AI-powered adaptive learning solution that personalizes content and feedback, accessible both online and offline.

Impact:

Empowers engineering students in underserved regions, enhances academic results, and bridges urban-rural education gaps.

Constraints and Expectations:

- AI/ML-driven adaptability
- Scalable to thousands of users
- Offline/low-bandwidth capable
- Privacy and security focused
- Compatible
with existing
classroom