

Problem Statement

Educators find it difficult to keep course content aligned with real-world skill demands. Student feedback, academic performance, and job-market insights are stored separately, making reviews manual and based on intuition. This results in outdated content, slow course updates, and limited understanding of whether students are being prepared for emerging technologies and industry needs.

Solution

AI Curriculum Intelligence System (ACIS) unifies these disconnected data streams into an intelligent, automated framework. Using multi-agent MCP servers powered by Gemini and LangChain, ACIS analyzes student sentiment, academic performance, and global job trends from the given data. Through Retrieval-Augmented Generation (RAG), it grounds recommendations in real curriculum data (PDFs, slides, syllabi) and produces actionable insights such as:

- topics to expand or remove,
- new modules or case studies to add,
- skill gaps that hinder employability.

This enables educators to make fast, data-driven updates that continuously improve teaching quality and industry relevance.