AI Career Mentor

Problem, Motivation & Opportunity

Problem Statement: Students and early-career professionals struggle to choose the right courses, build job-ready skills, and gain practical experience. Learning content is scattered across platforms like YouTube and MOOCs, leading to poor course choices, weak resumes, and low employability.

Who It Impacts: College students, fresh graduates, and self-learners preparing for competitive job markets.

Motivation: While learning resources are abundant, career guidance is fragmented. Existing AI tools are generic and fail to connect learning with internships, resumes, and career outcomes. There is a clear need for a personalized, career-focused GenAI solution.

Solution, Method & Impact

Proposed Solution: AI Career Mentor is a GenAI-powered student helper that supports the complete career journey.

Key Capabilities:
• Career-based course recommendations from YouTube and MOOCs
• AI-powered doubt solving during learning
• ATS-friendly resume building and optimization
• Virtual internship experience through task-based simulations
• Personalized career roadmaps and growth planning

Method: The system uses a Large Language Model with Retrieval-Augmented Generation, a curated knowledge base for courses and jobs, profile-driven personalization, and prompt-based internship task simulation.

Novelty & Scale: An end-to-end learning-to-career GenAI platform that provides internship-like experience without real company dependency. The solution is scalable across domains, languages, colleges, and EdTech platforms.