Project Management with AI Insights

Abstract

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In most academic institutions, a large number of student projects are created every year. However, the lack of centralized documentation and structured storage often leads to difficulties for faculty members in tracking project progress, locating source codes, reports, and related documents. This results in wasted effort, poor knowledge transfer, and limited reusability of student research outcomes.

This project proposes the development of an AI-powered Project Management and Insight System designed to centralize all project resources, including source code, documentation, and final reports, within a unified platform. The system will integrate advanced AI analytics to automatically categorize projects, summarize documents, and generate insights such as project themes, technology trends, and similarity detection between past and present works. Faculty members will be able to easily search and retrieve relevant project data, while students can benefit from structured project planning, version control, and guided documentation.

By combining centralized project repository management with AI-driven insights, the solution not only addresses the existing problem of project resource mismanagement but also creates a long-term academic knowledge base that enhances collaboration, evaluation, and innovation within the institution.

Every year, students in our college complete many academic projects. These projects include reports, source code, presentations, and related documents. However, most of these materials are not stored in a single, organized place. As a result, teachers face difficulties in:

Tracking the progress of each student project.

Finding the final reports, code, or presentations later.

Re-using or referring to past projects for academic improvement or research.

This lack of a centralized system leads to loss of valuable academic work and creates repeated effort each year.