INTRODUCTION

**Project Title: Personalised Learning With Generative AI And Lms Integration**

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**Project Overview**:

**EduTutor AI** is an AI-powered personalized learning platform that enhances the way students learn and educators assess academic progress. Leveraging advanced generative AI models such as **IBM Watsonx** and **Granite**, the platform delivers dynamic quiz generation, adaptive assessments, real-time feedback, and performance analytics.

Designed with modular architecture and integrated with **Google Classroom**, EduTutor AI offers a seamless, scalable solution for personalized education. Students benefit from customized learning paths and instant feedback, while educators gain access to insightful dashboards that track performance, learning gaps, and engagement trends.

By combining diagnostic testing, adaptive quizzing, and real-time data insights, EduTutor AI empowers learners across all academic levels and supports educators in delivering targeted, data-informed instruction.

**Purpose of the Project:**

The purpose of **EduTutor AI** is to personalize and enhance the learning experience for students while equipping educators with real-time, data-driven insights. By leveraging generative AI and seamless LMS integration, the platform aims to:

* Deliver customized quizzes and adaptive assessments tailored to individual student needs.
* Provide instant feedback to accelerate learning and reinforce understanding.
* Help educators monitor progress, identify learning gaps, and personalize instruction.
* Align learning content with existing curricula through Google Classroom integration.

EduTutor AI seeks to improve academic outcomes by making education more intelligent, efficient, and student-centered.

**Key Objectives:**

* **Deliver Personalized Learning :** Utilize generative AI to create tailored quizzes and assessments based on each student’s learning progress, strengths, and gaps.
* **Enable Adaptive Assessment :** Implement diagnostic testing and dynamically adjust quiz difficulty to ensure appropriate learning challenges and progression.
* **Provide Real-Time Feedback :** Offer instant, AI-powered evaluation of student responses to reinforce understanding and guide improvement.
* **Support Educators with Data-Driven Insights :** Equip teachers with dashboards that highlight performance trends, topic mastery, and actionable recommendations for intervention.
* **Integrate Seamlessly with LMS Platforms :** Sync with Google Classroom to align content with curriculum, simplify onboarding, and maintain consistent academic structure.
* **Enhance Learning Outcomes :** Improve student engagement, retention, and achievement through personalized, data-informed instruction.