**AI-POWERED LEARNING MANAGEMENT SYSTEM (LMS)**

**ABSTRACT**

This project proposes the development of an **AI-powered Learning Management System (LMS)** to revolutionize education and training by leveraging artificial intelligence (AI) and machine learning (ML) technologies. The system aims to enhance personalized learning, improve engagement, and streamline administrative tasks for educators and organizations. Key features include AI-driven course recommendations, automated grading, real-time feedback, and predictive analytics to identify at-risk learners. The LMS will also incorporate gamification, microlearning modules, and mobile accessibility to cater to diverse learning styles and preferences. Built using Python and popular AI frameworks like TensorFlow and Scikit-learn, the system will integrate natural language processing (NLP) for intelligent chatbots and voice-assisted learning. Additionally, advanced analytics will provide actionable insights into learner performance and course effectiveness. The proposed LMS is designed for scalability, making it suitable for educational institutions, corporate training programs, and individual learners. By combining AI with traditional LMS functionalities, this system aims to create a more adaptive, engaging, and efficient learning environment, ultimately improving knowledge retention and outcomes. This project highlights the transformative potential of AI in education and training, paving the way for smarter, data-driven learning solutions.

**HARDWARE REQUIREMENT:-**

* PROCESSOR - INTEL ® CORE ™ I9-14900K 3.20 GHZ
* RAM - 16 GB
* HARD DISK - 1 TB

**SOFTWARE REQUIREMENT:-**

* FRONT END - HTML,CSS,JAVA SCRIPT, REACT.JS
* BACK END - PYTHON,NODE.JS
* FRAMEWORK - FLASK, EXPRESS.JS
* DATABASE - MYSQL , NoSQL