

# S8 Project

## Course Recommendation Engine Based on Student Performance and Interests

### AIM :

To design and develop a robust Course Recommendation Engine that leverages students' academic performance data and personal interests to provide accurate, personalized, and dynamic course suggestions.

### OBJECTIVES:

- **Analyze User Performance:** Develop algorithms to evaluate and analyze user performance metrics such as grades, completed coursework, and learning patterns.
- **Incorporate User Interests:** Design mechanisms to gather and integrate user interests through surveys, activity tracking, or preferences to enhance personalized recommendations.
- **Create a Recommendation Model:** Build an AI-based recommendation model utilizing machine learning techniques to suggest relevant courses tailored to individual performance and interests.
- **Optimize User Engagement:** Provide recommendations that enhance user engagement, improve learning outcomes, and align with career or academic goals.
- **Integrate Feedback Loop:** Implement a feedback mechanism to refine recommendations based on user interactions and satisfaction.
- **Ensure Scalability and Usability:** Develop a scalable and user-friendly platform capable of handling diverse user profiles and course offerings.
- **Promote Career Alignment:** Align recommendations with the user's long-term academic and career aspirations by incorporating industry trends and skill requirements.