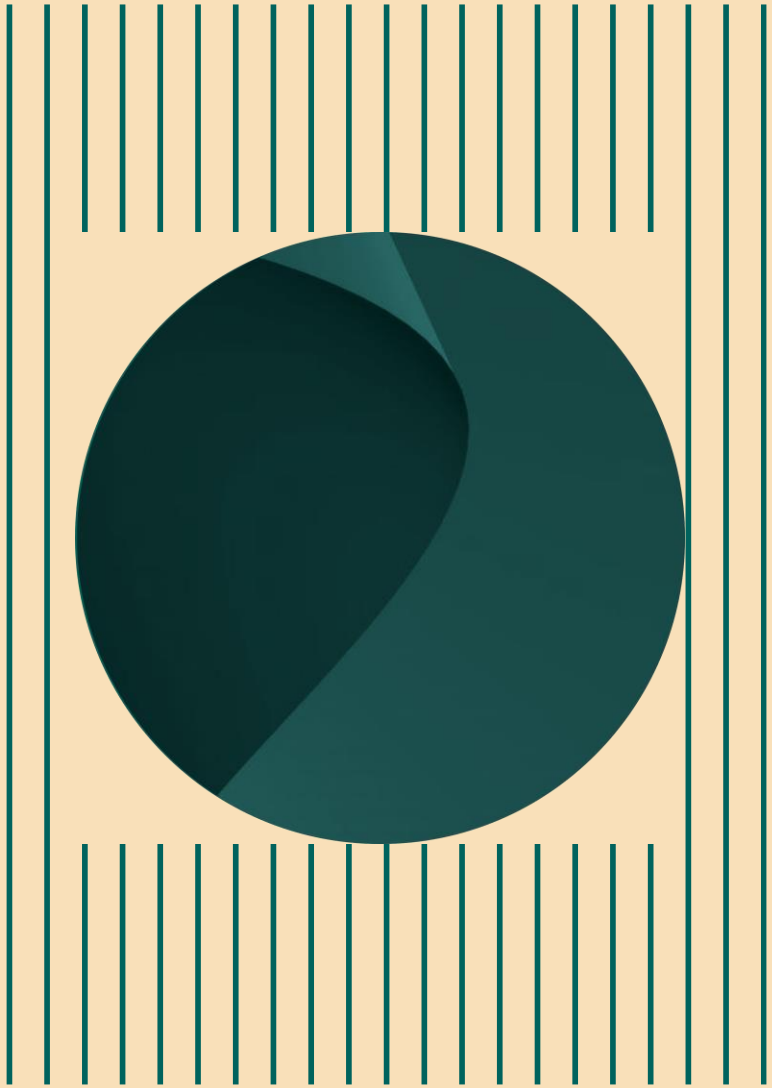
GR_Map

Introduction

This project aims to develop a Machine Learning (ML) model that helps computer science students receive personalized course recommendations. The goal is to guide students toward courses that align with their skills, interests, and career goals, improving their learning paths and future job opportunities.

Problem statement

In the rapidly evolving field of computer science, students often struggle with identifying the foundational gaps in their knowledge, particularly when transitioning to more specialized fields such as web development, Flutter, Backend, machine learning, or data science. Traditional educational systems tend to offer generalized curricula that may not address individual weaknesses in core computer science principles like algorithms, data structures, or programming basics.



Our expansion goals

1. Personalized Recommendations: Provide tailored Road map suggestions based on individual student data.

2. Enhanced Learning Experience: Guide students toward Road map that match their skill levels and foster their growth.

3. Market Relevance: Recommend Road map aligned with current market trends, especially in technology and IT fields.

4. Continuous Learning: Motivate students to enhance their skills by suggesting Road map that increase their job prospects.

Competitors

Knowledge-Based Recommender System Using Artificial Intelligence for Smart Education on World Scientific:

Artificial intelligence can open modern opportunities and potentials for smart education. Smart learning purposes at providing holistic learning to learners utilizing modern technologies to fully prepare them for a fast-evolving world where adaptability is vital.

Link:
https://www.worldscientific.com/doi/abs/10.1142/S0219265921430313

An AI-based open recommender system for personalized labor market driven education:

Attaining those skills that match labor market demand is getting increasingly complicated, not in the last place in engineering education, as prerequisite knowledge, skills, and abilities are evolving dynamically through an uncontrollable and seemingly unpredictable process.

Link:
https://www.sciencedirect.com/science/article/pii/S1474034621002573

Thank You