Project Initialization and Planning Phase

Date	15 April 2024
Team ID	Team-738178
Project Title	Envisioning Success : Predicting University Scores With Machine Learning
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) report

The proposal report aims to enhance university score prediction using machine learning techniques. By analyzing factors such as quality of education, alumni employment, faculty quality, publications, influence, citations, and patents, the system helps students and their families make well-informed decisions about their educational future.

Project Overview	
Objective	The primary objective of the project is to improve the university scoring process by implementing advanced machine learning techniques to provide more precise and reliable assessments.
Scope	The project utilizes machine learning to analyze key university characteristics such as quality of education, alumni employment faculty quality, publications, influence, citations, and patents. The aim is to deliver precise and efficient university scoring for informed decision-making in the academic sector.
Problem Statement	
Description	The current university scoring system may suffer from inconsistencies and inaccuracies in evaluating key factors, which can lead to challenges in informed decision-making for prospective students and their families.
Impact	Addressing these issues will lead to more precise and reliable university assessments, allowing students and families to make better educational choices. This, in turn, can enhance the reputation of universities, support student success, and drive overall improvement in the quality of higher education.
Proposed Solution	
Approach	Leveraging machine learning techniques to analyze and predict university scores based on key parameters such as quality of education, alumni employment, faculty quality, publications, influence, citations, and patents.
Key Features	- Implementation of a machine learning-based university scoring model.

	- Real-time assessment and prediction of university scores for immediate decision-making. - Continuous learning to adapt to evolving academic data and trends.

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	T4 GPU
Memory	RAM specifications	8 GB
Storage	Disk space for data, models, and logs	1 TB SSD
Software		
Frameworks	Python frameworks	Flask
Libraries	Additional libraries	scikit-learn, pandas, numpy, matplotlib, seaborn
Development Environment	IDE	Google Colab
Data		
Data	Source, size, format	timesData.csv, 614, snc.csv, 818, cwurData.csv, 2603