

Project Design Phase-I

Solution Architecture

Date	03 November 2023
Team ID	Team-591606
Project Name	Predicting University scores using Machine Learning
Maximum Marks	4 Marks

Solution Architecture:

Finding the best university for you that is well within our objective criteria is a real hard task. By taking in considerations of the conditions and concerns that almost every student has, we develop a machine learning model that assigns scores to universities. In this project, we take into consideration, the characteristics such as: Quality of education, Alumni Employment, Quality of faculty, Publications, Influence, Citations, and Patents in our dataset. This model helps you predict the score of the university based on certain parameters.

We develop models and evaluate them to find the best among them. We enhance the accuracy and performance of the model by using optimization techniques. We then integrate the model with web framework and deploy the model.

The user can interact with the UI and give their input. The model analyzes the input and make predictions to its best ability.

Steps involved in making of the project:

- Collection of data (dataset) for the project.
 1. Exploratory Data Analysis:
 2. Descriptive Statistical Analysis
 3. Data Visualization or Visual analysis
- Data Pre-processing (Cleansing/Preparation of Data)
- Model Building (using various models)
- Performance testing and selection of the best among them.
- Model Deployment.

Crisp solution architecture:

