

**Project Design Phase-I**  
**Proposed Solution Template**

Date	20 September 2022
Team ID	PNT2022TMID31578
Project Name	Project – University Eligibility Predictor
Maximum Marks	2 Marks

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p>The aim of this project is to help students in shortlisting universities with their profiles. The predicted output gives them a fair idea about their admission chances in a particular university.</p> <p>This analysis should also help students who are currently preparing or will be preparing to get a better idea. It also aims to make a direct connection between the students and the universities and avoid any intermediaries.</p>
2.	Idea / Solution description	<p>This project intends to calculate the probability of acceptance in a particular grad-school after assessing the candidate's profile.</p> <p>The key attributes that will be considered for making the decisions are:</p> <ul style="list-style-type: none"> <li>i) Undergrad CGPA</li> <li>ii) GRE &amp; TOEFL Scores</li> <li>iii) SOP &amp; LOR</li> <li>iv) Work Experience / Research Experience</li> <li>v) Extracurriculars</li> </ul> <p>Determining the Percentage of acceptance, we will be using various ML models such as Logistic regression, Multiple Linear Regression, Decision Tree &amp; Random Forest and assess which model gives the highest accuracy with the help of performance metrics like accuracy-score, precision and recall.</p>
3.	Novelty / Uniqueness	<p>1) We tend to develop a deep learning-hybrid model that has a better accuracy than the existing traditional ML models.</p> <p>2) The web-app will also provide feedback on the parameters where the candidate is lacking so that he can improve on those areas.</p>
4.	Social Impact / Customer Satisfaction	<p>1) Students often feel difficult in shortlisting the universities to apply which they tend to wonder if their profile matches the requirement of a certain university.</p> <p>2) Moreover, the cost of applying to a university is extremely high making it critical that students shortlist universities based on their profile.</p>

		<p>3) A university admission prediction system is quite useful for students to determine their chances of acceptance to a specific university.</p> <p>4) This system reduces dependence on educational consultancies, who charge loads of money to analyse a candidate's profile and determine the universities student should apply</p>
5)	Business Model (Revenue Model)	<p>1) Advertisements of different universities could be placed in the web-app to generate revenue through ads.</p> <p>2) In the future, a separate premium plan could be created where the students can directly interact with the professors and alumni of the university through video calls</p>
6)	Scalability of the Solution	<p>1) Future update could have chat space where candidates, faculties, current students of the university and alumni can interact and candidates can get their doubts resolved instantly.</p> <p>2) To deal with huge volumes of data in the future and NoSQL databases could be used instead of the traditional RDBMS storage.</p> <p>3) Distributed big-data processing techniques could be explored if the no. of users using the website increase exponentially during the course of time.</p>