# Project Design Phase-I
# Proposed Solution Template

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| Date | 26 October 2022 |
| Team ID | PNT2022TMID21016 |
| Project Name | University Admit Eligibility Predictor |
| Maximum marks | 2 Marks |

| S.No. | Parameter | Description |
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| 1. | Problem Statement (Problem to be solved) | Students are constantly distressed about the admissions into their dream universities,so in order to give a clear idea to all those and this project is being implemented to fulfill these objectives.<br>This project helps the students to shortlist the universities they are eligible for based on their profiles. This list of prediction can aid the students to pick the top university that desire based on their eligibility. This analysis also helps the students who are preparing or will be preparing to get a better idea for the future.<br>It also aims to make a direct connection between the students and the universities to avoid any intermediaries. |
| 2. | Idea / Solution description | This project plans to compute the chances of acceptance into a specific university after going through the student's profile. The key aspects that will be considered for shortlisting are:<br>i) GRE & TOEFL/ILTES Scores<br>ii) CGPA of undergraduate degree<br>iii) SOP & LOR<br>iv) Related Work or Research Experience<br>v) Contributions in extra curricular<br>For finding the chances of acceptance, various ML models such as Logistic Regression, Multiple Linear Regression, Decision Tree & Random Forest will be used and analysis which model provides the highest accuracy along with the performance metrics like precision, accuracy and recall. |
| 3. | Novelty / Uniqueness | The intention of this project is to develop a hybrid model that is based on novel deep learning and can provide better accuracy compared to the already existing models.<br>The web-application will also provide a feedback report to the students about the areas the student can improve their performance. |

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| 4. | Social Impact / Customer Satisfaction | Students find it difficult to shortlist the universities to apply because of the different requirement of certain universities and students are unsure about their eligibility into the university based on their profiles.<br>And other criteria for the application also depends upon the cost of applying to different universities making the decision more critical.<br>A university admission prediction system is very much helpful for students to determine the probability of acceptance to a particular university.<br>This system is almost independent of the educational consultancies, who charge expensive fees to analyse a student's profile and determine the universities they should apply for. |
| 5. | Business Model (Revenue Model) | By placing advertisements of different universities in the web-app, we can generate revenue from the application through ads.<br>In future , a separate premium plan could be created where the students can directly make video calls and interact with the professors and alumni of the university. |
| 6. | Scalability of the Solution | In further future update we can have chat space where candidates , faculties ,current student of the university and alumni can interact and candidates can get their doubts resolved instantly.<br>In order to deal with huge volumes of data in the future (Both university details and applicants details), cloud-based storages (IBM cloud, GCP, AZURE, AWS) and NoSQL databases (MongoDB, Redis, etc) could be used instead of the traditional RDBMS storage.<br>Other side, distributed big-data processing techniques could be explored if the no of users using the website increase exponentially during the course of time. |