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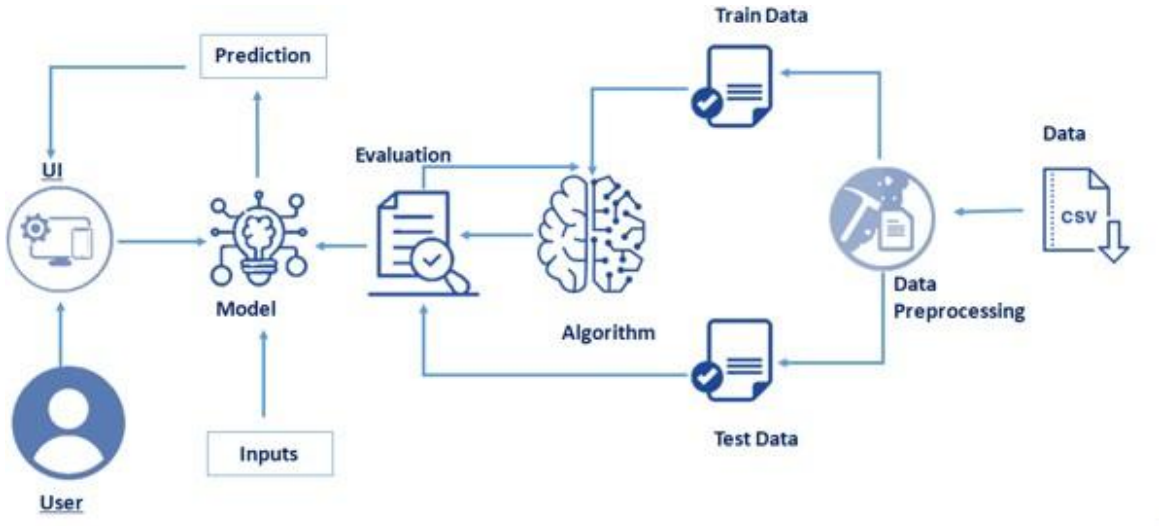
| Date | 19 September 2022 |
| Team ID | PNT2022TMID15154 |
| Project Name | UNIVERSITY ADMIT ELIGIBILITY PREDICTOR |

# University Admit Eligibility Predictor

## Project Abstract:

**Students are often worried about their chances of admission to the university. This project aims to help students in shortlisting universities with their profiles. The predicted output gives them a fair idea about their admission chances to a particular university. This analysis should also help students who are currently preparing or will be preparing to get a better idea.**

## Architecture Diagram:




### Literature Survey:

### 1) "Graduate Admission Prediction Using Machine Learning",

**research paper by Sara Aljasmi, Ali Bou Nassif, Ismail Shahin, and Ashraf Elnagar.**

**Abstract:**

**Student admission problem is very important in educational institutions. This paper addresses machine learning models to predict a student's chance to be admitted to a master's program. This will assist students to know in advance if they have a chance to get accepted. The machine learning models are multiple linear regression, k-nearest neighbor, random forest, and Multilayer Perceptron. Experiments show that the Multilayer Perceptron model surpasses other models.**

**References:** ***Aljasmi, S., Nassif, A.B., Shahin, I. and Elnagar, A., 2020. Graduate admission prediction using machine learning. Int. J. Comput. Commun, 14, pp.79-83.***

## 2) UNIVERSITY PREDICTOR by machine learning | by Jigar Prajapati | Medium

**Abstract:**

**This article talks about the architecture and algorithm of the system proposed. KNN, Decision Tree, and Logistic Regression were used to find the admits of a particular student. The ML models consider various parameters like GRE and TOEFL scores, SOP, and LOR. Finally, upon evaluation, the author states that Decision Tree had the best accuracy out of the tree algorithms used.**

## 3) University Admissions Predictor Using Logistic Regression

**Research paper by Haseeba Fathiya and Lipsa Sadath**

**Abstract:**

**This is a novel study on a predictor for university admissions that allows students to assess their chances of being admitted to an institution. Real student data is gathered to construct this. The information is kept in the form of a training set that may be used by the logistic regression classifier that was designed to predict admissions.**

**References:** *H. Fathiya and L. Sadath, "University Admissions Predictor Using Logistic Regression," 2021 International Conference on Computational Intelligence and Knowledge Economy (ICCIKE), 2021, pp. 46-51, DOI: 10.1109/ICCIKE51210.2021.9410717.*

## 4) Introduction to Modelling Tabular Data: Predicting a student's chance of gaining admission using ML | by Jia Qing

### Abstract:

**This article uses the Graduate Admissions dataset (UCLA Admissions Dataset) and predicts a student's chances of getting admission into a US university using ML algorithms. It was concluded that Multiple Linear Regression was the best model for predicting the admission chances of a student.**