University Admit Eligibility Predictor

Presented by
Jayapradha B
Maimoon Shirin M
Banu Swetha R
Kiruthika P

ABSTRACT:

- Students are often worried about their chances of admission to University.
- 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 to a particular university.
- This analysis should also help students who are currently preparing or will be preparing to get a better idea.

OBJECTIVES :

- To understand regression and classification problems To grab insights from data through visualization.
- Applying different ML algorithms to determine the probability of acceptance in a particular university.
- Evaluation metrics Build a web application using the Flask framework.

ARCHITECTURE DIAGRAM :

LITERATURE SURVEY

1) https://ieeexplore.ieee.org/document/9418279
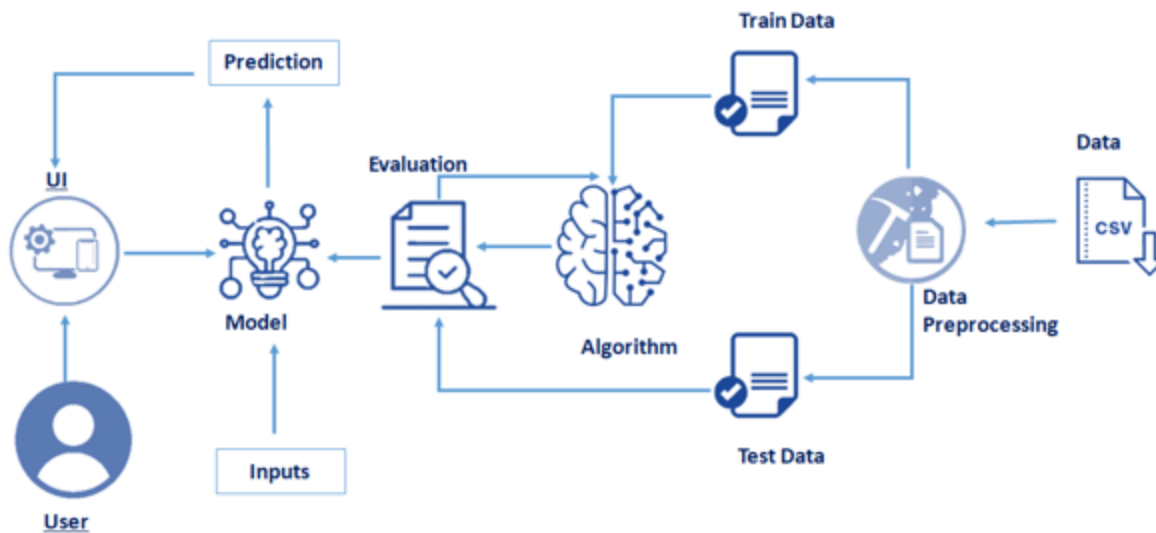
Abstract:

- Students regularly have difficulty finding a fitting institution to pursue higher studies based on their profile. There are some advisory administrations and online apps that recommend universities but they ask huge consultancy fees and online apps are not accurate. So, the aim of this research is to develop a model that predict the percentage of chances into the university accurately.

References:

- MS Acharya, A Armaan and AS Antony, "A comparison of regression models for prediction of graduate admissions", 2019.

LITERATURE SURVEY

2) https://ieeexplore.ieee.org/document/9410717

Abstract:

- Students applying for admissions to universities find it difficult to understand whether they have good chances of getting admission in a university or not. Keeping this in focus, we have used logistic regression techniques that have gained attention in software engineering field for its ability to be used for predictions. This is a novel work on a university admissions predictor using which students can evaluate their competitiveness for getting admission at a university.

References:

- M. Fatima and M. Pasha, "Survey of machine learning algorithms for disease diagnostic", *Journal of Intelligent Learning Systems and Applications*, vol. 9, no. 01, pp. 1, 2017.

LITERATURE SURVEY

3) https://ieeexplore.ieee.org/document/6416521

Abstract:

- This paper presents a new college admission system using hybrid recommender based on data mining techniques and knowledge discovery rules, for tackling college admissions prediction problems. This is due to the huge numbers of students required to attend university colleges every year. The proposed HRSPCA system consists of two cascaded hybrid recommenders working together with the help of college predictor, for achieving high performance.

References:

- G. Ganapathy, and K. Arunesh, "Models for Recommender Systems in Web Usage Mining Based on User Ratings" Proceedings of the World Congress on Engineering, Vol. I WCE 2011.

LITERATURE SURVEY

4) https://dl.acm.org/doi/10.1145/3388818.3393716

Abstract:

- With the increase in the number of graduates who wish to pursue their education, it becomes more challenging to get admission to the students' dream university. Newly graduate students usually are not knowledgeable of the requirements and the procedures of the postgraduate admission and might spent a considerable amount of money to get advice from consultancy organizations to help them identify their admission chances.

References:

- E. Roberts, "using machine learning and predictive modeling to assess admission policies and standards," 2013.

LITERATURE SURVEY

5) https://medium.com/@jigar18011999/university-predictor-by-machine-learning-2d880e9f3a3

Abstract:

- This article describes the architecture and algorithms of the proposed system. ANN, decision trees, and logistic regression were used to find admissions for a particular student. ML models take into account various parameters such as GRE and TOEFL scores, SOP, and LOR. Finally, after evaluation, the authors state that decision trees are the most accurate among the tree algorithms used.

LITERATURE SURVEY

6) https://github.com/satwik2663/Machine-Learning-Graduate-Studuent-Admission-Predictor

Abstract:

- Today, there are many students who travel to USA to pursue higher education. It is necessary for the students to know what are their chances of getting an admit in the universities. Also, universities manually check and count the total number of applicants who could get an admit into university. These methods are slow and certainly not very consistent for students and universities to get an actual result. This method is also prone to human error and thus accounts for some inaccuracies. Since the frequency of students studying abroad has increased, there is a need to employ more efficient systems which handle the admission process accurately from both perspectives.

LITERATURE SURVEY

7) https://github.com/anjanatiha/University-Admission-Match-Predictor

Abstract:

1. Analyzed university admission statistics.
2. Developed tools for matching university (in percentile) using CGPA, GRE (Verbal, Quantitative, Analytical Writing) scores.

LITERATURE SURVEY

8) https://github.com/karanwadhwa/dd-admission-predictor

Abstract:

- This system was originally developed only for Engineering College Admissions in Maharashtra,India but can essentially be adapted for other streams too. The purpose of it is to build a system to predict the users chances for getting into a certain college.