# LITERATURE SURVEY ON UNIVERSITY ADMIT ELIGIBILITY PREDICTOR

## ABSTRACT:

Student admission problem is very important in educational institutions. This project addresses machine learning models to predict the chance of a student 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.

## CONTEXT:



## INTRODUCTION:

In the current world scenario, it is not enough for a student to just have an Under Graduate degree. Most employers now look for higher qualifications in their new recruits. As a result, the demands for a good higher education are at an all time high. A lot of students from India prefer to continue their higher education with foreign universities, especially in the United States. In order to get admitted to these foreign universities, a set of academic requirements are needed. However, because of the sheer number of universities of different levels, students are often stuck in a dilemma till the very last minute as to whether or not their applications will be accepted or not as no concrete documentation is available which lists the requirements.

This is a literature survey for a new machine learning web-based University Admit Eligibility Predictor.This University Admit Eligibility Predictor is an ML based application that asks for the users to input their academic transcripts data and calculates their chances of admission into the University Tier that they selected. It also provides an analysis of the data and shows how chances of admissions can depend on various factors. This survey analysis should also help students who are currently preparing or will be preparing to get a better idea for getting admission into the eligible university.

## USE CASE:

The scope of this project is a web application that allows users to enter their academic data and get predictions of their chances of admissions in the university tier of their choosing. It also provides them answers to the most common FAQ's that arise when thinking of admissions abroad for Post Graduate studies.It also provides an analysis based on the data set used that shows how the different parameters affect chances of admissions. A Database will also be implemented for the system so that students can save their data and review and edit it as they progress with the most recent predictions being saved with their profile.

## GOAL STATEMENT:

The goal of the system is to provide help to students who are looking for PG Abroad. The system proposes to achieve this by –

• Providing answers to the most commonly asked questions regarding university admissions for PG Studies Abroad.

• Providing an as accurate as possible prediction for the student's chances of admissions to the universities of their choice based on their academic transcripts.

• Providing an analysis conducted over our dataset to the user in order to help them understand the weightage of various academic data values on their chances of admissions.

## SYSTEM OVERVIEW:

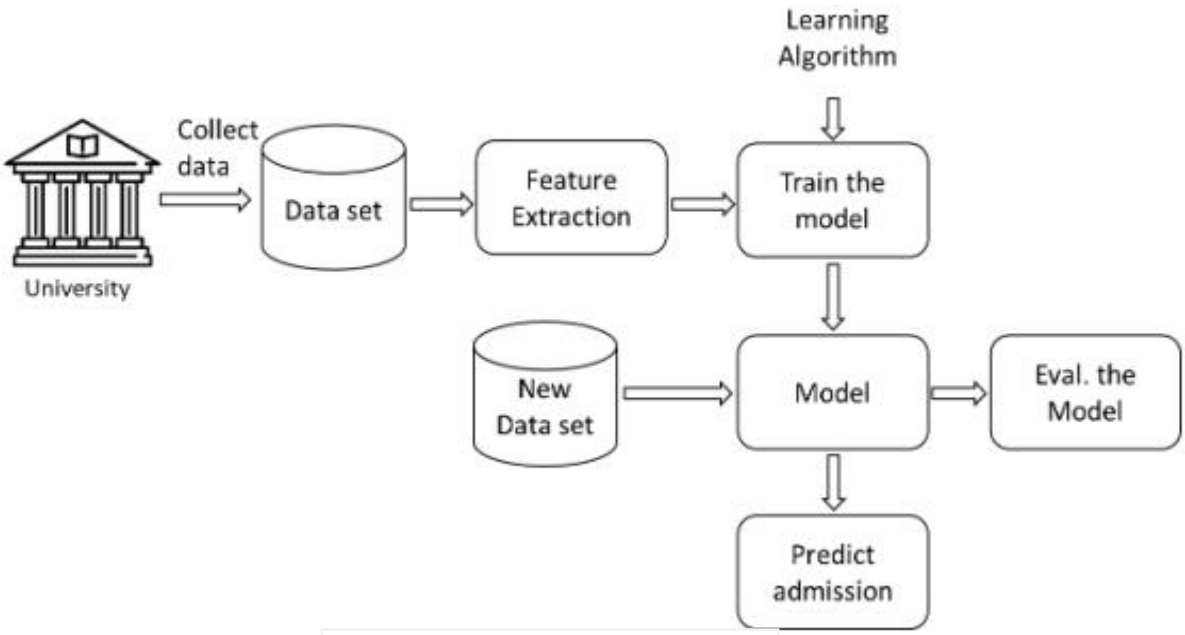


Fig. 1. System Overview

## CONTEXT DIAGRAM:

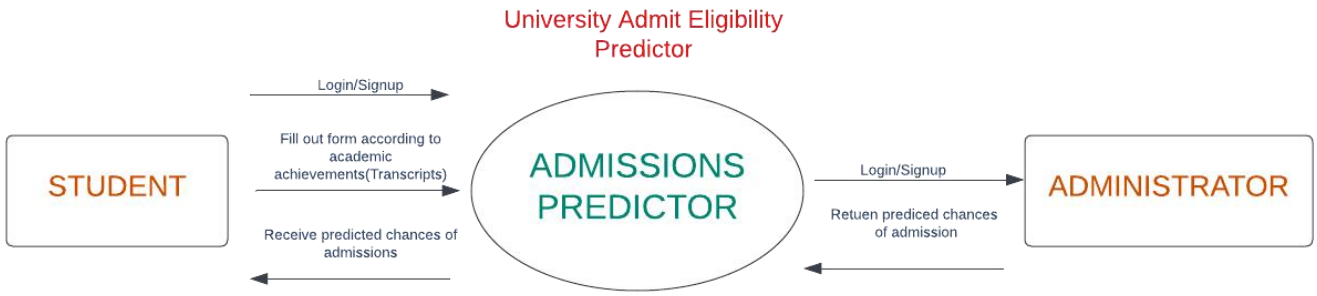


Fig. 2. CONTEXT DIAGRAM

## CONCLUSION:

We at University Admit Eligibility Predictor are here to provide a solution to that problem. Not only do we provide a single platform that documents all the requirements as well as the different tiers of universities, but our website also incorporates an AI Model that was built after considering many leading Machine Learning Algorithms, to provide the most accurate prediction of how much of a chance of admissions does a student's current grades and other academic transcripts allow them in the tier of universities of their choice.

## REFERENCES:

1."The Daily Star," 2017. [Online]. Available: https://www.thedailystar.net/backpage/public-universities-admission still-uphill-battle-1438285. [Accessed 2020].
2.C. C. Aggarwal, Data Mining: The Textbook, 1 ed., Springer International Publishing Switzerland, 2015.
3.P. Binu, A. Chandran and M. Rahul, "A Cloud-Based Data Analysis and Prediction System for University Admission," in 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT), 2019.
4.M. S. Acharya, A. Armaan and A. S. Antony, "A comparison of regression models for prediction of graduate admissions," in International Conference on Computational Intelligence in Data Science (ICCIDS), 2019
5.A. M. Roa, N. Dharani, A. S. Raghava, J. Buvanambigai and K. Sathish, "College Admission Predictor," Journal of Network Communications and Emerging Technologies (JNCET), vol. 8, no. 4, April 2018.
6.] R. V. Mane and V. Ghorpade, "Predicting student admission decisions by association rule mining with pattern growth approach," in International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques (ICEECCOT), 2016.