# University Admit Eligibility Predictor

## Introduction

Specific preparation plays a crucial part in your life. Thus, education preparation students often have multiple questions about universities which they can get admission and scholarship and accommodation. One of the main concerns is getting admitted to their dream university. It's seen that students still choose to obtain their education from universities that are known internationally. According to estimates, there are more than 10 million international students enrolled in over 4200 universities and colleges including both private and public across the United States. Most number of students studying in America are from Asian countries like India, Pakistan, Sri Lanka, Japan and China. They are choosing not only America but also UK, Germany, Italy, Australia and Canada. 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. This analysis should also help students who are currently preparing or will be preparing to get a better idea.

## Existing Model

This section includes the literature review of previous research on the assessment of student enrolment opportunities in universities. Numerous programs and studies have been carried out on topics relating to university admission used many machine learning models which helps the students in the admission process to their desired universities. Previous research done in this area used Naive Bayes algorithm which will evaluate the success probability of student application into a respective university but the main drawback is they didn't consider all the factors which will contribute in the student

admission process like TOEFL/IELTS, SOP, LOR and under graduate score. This model was developed to forecast the progress of prospective students by comparing the score of students currently studying at university. The model thus predicted whether the aspiring student should be admitted to university on the basis of various scores of students. Since the comparisons are made only with students who got admission into the universities but not with students who got their admission rejected so this method will not be that much accurate.

## Proposed System

The main goal of this project is to create a system that will address the issues that students encounter when applying to institutions. We will be creating a University Admit Eligibility Predictor (UAEP) system that will enable students to estimate, based on their profiles, the likelihood that a certain university would select their application. The system will also suggest universities for the student to apply to that have a good chance of admitting him or her. Additionally, we'll be developing a straightforward user interface that will enable users to enter information about a student's profile and receive the application's predicted outcome based on the profile as output. By suggesting the universities where they have the best chance of being admitted and thus saving more money on the application fee, this research will ultimately help students save the extra money and time they have spent at the education consultancy firms and help them to limit their number of applications to a small number.

## References

1. C. Haythorhwaithe, M. de Laat, and S. Dawson, Introduction to the special issue on the learning analytics. American Behavioral Science,57(10):1371-1379,2013.

2. Liu Jinpeng. Research on the application of Data Mining Technology in Analysis of Examinee Wish, Henan University,2009.

3. Alpaydin,E. Introduction to Machine Learning,3rded;MIT press:Cambridge,MIT, USA,2010.

4. Kuncheva, LL combining pattern classifiers: Methods and Algorithms, 2nd ed; McGraw hill;John wiley&sons,Inc:Hoboken,NJ,USA,2014.

5. D.M Blei, A.Y. Ng, and M. I. Jordan, Latent Dirichlet allocation,Journal of Machine Learning Research,3:993-1022, 2003.

6. L. Breiman, Accuracy Predictors, Machine Learning, 24(2):123-140,1996.

7. Data Cleaning and Analytics, Machine Learning https://archieve.ics.uci.edu/ml/index.php

8. Data Visualizaton, Machine Learning https://www.analyticsvidhya.com/blog/2017/09/common-machin e-learning-algorithms/

9. Jupyter Notebook, Implementing the Algorithms, Machine Learning, https://jupyter-notebook.readthedocs.io/en/stable/