LITERATURE SURVEY

a) Existing problem:

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. Bayesian Networks Algorithm have been used to create a decision support network for evaluating the application submitted by foreign students of the university. 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.

b) Proposed solution:

These problems can be resolved by using regression algorithms / classification algorithms as they can consider most of the features for prediction. Linear regression / KNN classification / Random forest Regressor can be used as the machine learning model for the model. XG boost model can also be used which performs better on small to medium scale datasets but the model giving accurate and desired results only will be selected. The aim of the proposed system is to address the limitations of the current system. The requirements for the system have been gathered from the defects recorded in the past and also based on the feedback from users of previous metrics tools.

Following are the objectives of the proposed system:

- Reach to geographically scattered student
- Reducing time in activities
- Paperless admission with reduced man power
- Operational efficiency

C) References :

- L. Chang , Applying Data Mining to Predict College Admissions

Yield, Chapter 4 in J. Luan and C. Zhao (Eds.), Data mining in action:

Case studies, Spring 2008 - College of Education.

Data-mining technology's predictive modeling was applied to enhance the prediction of enrollment behaviors of admitted applicants at a large state university.

- Rensong Dong,The module of prediction of College Entrance

Examination aspiration, Fuzzy Systems and Knowledge Discovery

(FSKD), 31 May 2012 ,1559-1562.

Many factors are involved in the prediction of College Entrance Examination (CEE) aspiration which is a non-linear classification problem. We proposed a CEE aspiration prediction approach based on support vector machine learning algorithm. Firstly, CEE score and ranking in all subjects, the number of college admission plan and relevant data of the latest two years are collected and a training set is formed.

- Data Visualizaton, Machine Learning

https://www.analyticsvidhya.com/blog/2017/09/common-machin e learning-algorithms/

- Journal of Network Communications and Emerging Technologies(JNCET) Volume 8, Issue 4, April (2018)

  College Admission Predictor System is a web based application system in which students can register their marks along with their personal information. This helps to predict their admissions in colleges. Administrator can add the college details and the batch details. Using this Application, the entrance seat allotment becomes easier and efficient.