

UNIVERSITY ADMIT ELIGIBILITY PREDICTOR

RELATED WORK:

Waters et al., establishes a model which provides accurate prediction with minimal hardware and software dependencies.[1] Çano et al., suggested a cutting-edge plan for a hybrid recommender system for college admission. It entails the cooperation of two cascading hybrid recommenders with the aid of a college predictor.[2]

M S Acharya et al., compared various models and found that linear regression had the edge owing to the linear dependency among the features in the data.[3] They did not, however, consider correlations among features such as GPA, GRE scores etc., which are not negligible.

Aljasmi et al., trained a multilayer perceptron that surpasses prior work that used multiple linear regression classifiers, random forests and kNN classifiers by showing significant reduction in mean absolute error. [4]

Omaer et al., proposed a graduate admission prediction system using Deep Neural Network which has performed more accurately and efficiently compared to the existing methods but performed little preprocessing.[5] Sridhar et al., used a stacked ensemble learning model with MLPs to achieve a very high accuracy but fails to consider subjective factors. [6]

Sivasangari et al., provided the analysis of scores versus chance of prediction based on historical data so that students can understand whether their profile is suitable or not. This model uses linear regression and random forest algorithms but cat boost algorithm produced highest accuracy of 95 percent.[7]

Neda and Gago-Masague developed various models in an attempt to establish feasibility of integrating ML even from the side of the university, in order to evaluate applications. However, their models were trained and tuned for a specific university (University of California at Irvine) and failed to perform well on subjective factors.[8]

Joshi et al., built decision tree regressor and random forest regressor which was compared with linear regression. Sequentially it was proved that linear regression produced highest accuracy of 82 percent among them.[9]

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