Literature Survey

UNIVERSITY ADMIT ELIGIBILITY PREDICTOR

Logesh M
Mohanraj G
Mugilan R
Pavithra R

1. Name: Graduate Admission prediction using machine learning

Year: 2020

Methodology: This paper 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

Author: Sara Aljasmi,Ali Bou Nassif,Ismail Shahin,Ashraf Elnagar

Accuracy: 94%

2. Name: A Comparative Study on University Admission Predictions Using Machine Learning Techniques

Year: 2021

Author : Ankita Chawla

Methodology: In this paper, they reviewed the machine learning techniques which are prevalent and provide accurate predictions regarding university admissions. They have compare different regression models and machine learning methodologies such as,Random Forest, Linear Regression, Stacked Ensemble Learning, Support Vector Regression, Decision Trees, KNN(K-Nearest Neighbor) etc, used by other authors in their works and try to reach on a conclusion as to which technique will provide better accuracy.

Algorithms :Linear Regression, Logistic Regression, Decision Tree, Support

Vector Machines SVM),

Accuracy:90.8,78.57,89.98

3. Name: A Machine Learning Approach for Graduate Admission Prediction

Author: Amal AlGhamdi, Amal Barsheed, Hanadi AlMshjary and Hanan AlGhamdi

Year: 2020

Methodology: This paper evaluates three learning strategies of regression to predict the university rate given the students' profile; namely, linear regression, decision tree, and logistic regression model. This paper evaluates, these models to select the best model in terms of the highest accuracy rate and the least error. It was determined that Logistic Regression model shows the most accurate prediction and hence this model was employed to predict the future applicant's university chance of admission.

4. Name: HRSPCA: Hybrid recommender system for predicting college admission

Author: Abdul Hamid M Ragab, Abdul Fatah S. Mashat, Ahmed M Khedra

Year: 2012

Methodology: 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

Accuracy: 87%

5. Name: Prediction of Admission Process for Gradational Studies using AI Algorithm

Year: 2020

Methodology : Saurabh Singhal, Ashish Sharma

About: They have worked to build up a framework utilizing AI algorithms, named it as Graduate Admission Prediction(GAP). GAP will assist the scholars by predicting the chance to get seat in Fantasy College. This paper compares and recognizes which AI algorithm is going to give precise outcome. A straight forward UI will be created for clients to get to the framework. They have used Regression Algorithms to build this model and gained accuracy of 93

Algorithms: MultiLinearRegression, Polynomial Regression,

Random Forest

Accuracy: 73,64,93

6. Name: University Admissions Predictor Using Logistic Regression

Author: Haseeba Fathiya and Lipsa Sadath

Methodology: This is Abstracta novel study on a predictor for university admissions that allows students to assess their chances of being admitted to an institution. Real student data is gathered in order to construct this. The information is kept in the form of a training set that may be used by the logistic regression classifier that was designed to predict admissions.

Year: 2021