LITERATURE SURVEY

University Admit Eligibility Predictor

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ABSTRACT

Students are often worried about their chances of admission to University. 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.

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Name: Graduate Admission Prediction Using Machine Learning Techniques

Year: 2021

Author : Sara Alijasmi, Ali buo Nassif, Ismail Shahin, Ashraf M Elanagar

About: .This paper helps us to predict the eligibility of Indian students getting admission in best university based on their Test attributes like GRE,TOEFL,LOR,CGPA etc. according to their scores the possibilities of chance of admit is calculated.

Algorithms :Linear Regression

Accuracy: 93%

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Name: Prediction for University Admission using Machine Learning

Year: 2020

Authors :Chithra Apoorva D A, Malepati ChanduNath, Peta Rohith, Bindu Shree.S, Swaroop.S

About:The aim of this paper is to develop a model which will tell the students their chance of admission into a respective university. This model considers all the crucial factors which plays a vital role in student admission process and should have high accuracy.They have used three kinds of Machine Learning Algorithms and achieved highest accuracy of 79 with Linear Regression Algorithm

Algorithms :Random Forest,Linear Regression,K-Nearest Neighbours

Accuracy: 77,79,72

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Name: Multiple Machine Learning Classifiers for Student’s Admission to University Prediction

Year: 2019

Authors : Anil B, Akram Pasha, Aman, Aman Kumar Singh, Aditya Kumar Singh

About: Machine Learning and Big Data can be useful for predicting the students’ admission, performance of teaching, performance of a student, identifying the group of students of similar behavior. However, the manual process of record checking is time consuming, tedious, and error prone; due to the inherent volume and complexity of data. In this study, the combination of linear and non-linear machine learning algorithms; Logistic Regression, Decision Tree, k-NN, and Naïve Bayes have been chosen to perform prediction of the target class for an unseen observation by polling.. The administrative officials of any academic institution can use this kind of an application to explore and analyze the patterns that are affecting the student admission and come up with enhanced strategies to improve admission. Such an application not only plays a vital role in administration, but also help the management in reformulating the marketing criteria for overall development of academic institution.

Algorithms :Linear Regression,Decision Tree,K-Nearest Neighbours

Accuracy: 70.65,80.52,75.17

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Name: Predicting Undergraduate Admission

Year: 2017

Authors : Md. Protikuzzaman, Mrinal Kanti Baowaly

About: This paper proposes a method that predicts undergraduate admission in universities. It can help students to improve their preparation to get a chance at their desired university. Many factors are responsible for the failure or success in an admission test.Educational data mining helps us to analyze and extract information from these factors. Here, the authors apply three machine learning algorithms XGBoost, LightGBM, and GBM on a collected dataset to estimate the probability of getting admission to the university after attending or before attending the admission test. They also evaluate and compare the performance levels of these three algorithms based on two different evaluation metrics – accuracy and F1 score.

Algorithms :XGBoost,LightGBM,GBM

Accuracy: 87,93,9

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Name: A Decision Tree Classification Model for University Admission System

Year:2012

Authors : Abdul Fattah Mashat, Mohammed M. Fouad, Philip S. Yu, Tarek F. Gharib

About: In this paper, they introduced a supervised learning technique of building a decision tree for College admission system. The main objective is to build an efficient classification model with high recall under moderate precision to improve the efficiency and effectiveness of the admission process. Here they used ID3 algorithm for decision tree construction and the final model is evaluated using the common evaluation methods. This model provides an analytical view of the university admission system

Algorithms :Decision Tree Model

Accuracy: 65.5