University Admit Eligibility Predictor Survey - Applied Data Science

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SURVEYS

A University Admission Prediction System using Stacked Ensemble Learning

LINK : *https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9213205*

Abstract: For an aspiring graduate student, shortlisting the universities to apply to is a difficult problem. Since an application is extremely dynamic, students often tend to wonder if their profile matches the requirement of a certain university. A university admission prediction system is quite useful for students to determine their chances of acceptance to a specific university. The system could make use of data related to previous applicants to various universities and their admit or reject status.

Implementation: In this Naive Approach to this is by training a model using basic ML Algorithms & in this paper they proposed a stacked ensemble classifier that predict the applicant's chances of getting an admit to a particular university. **Step 1:** Collecting data set(Using Web Crawler) **Step 2:** Data Preprocessing(Cleaning & Normalization) **Step 3:** Model training **Step 4:** Evaluating it with other supervised techniques like Decision Tree, Linear Discriminant Analysis (LDA) etc.

Result: It is observed that the proposed model easily outperforms all other models and provides a very high accuracy.

Graduate Admission Prediction Using Machine Learning

SOURCE : INTERNATIONAL JOURNAL OF COMPUTERS AND COMMUNICATIONS DOI: 10.46300/91013.2020.14.13

LINK : https://www.naun.org/main/UPress/cc/2020/a262012-013(2020).pdf

- Student admission problem is very important in educational institutions. 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.
- Shapiro-Wilk Normality Test The Shapiro-Wilks test is a test performed to detect whether a variable is normally distributed or not depending on the p value. In case the p-value was less than or equal 0.05, the test will reject the null hypothesis.
- Multiple Linear Regression Multiple linear regression is a statistical technique used to predict a dependent variable according to two or more independent variables. As well as, present a linear relationship between them and fit them in a linear equation.
- K-Nearest Neighbor K-nearest neighbor (KNN) is a supervised machine learning algorithm used for classification and regression problems It is based on the theory of similarity measuring. Therefore, to predict a new value, neighbors should be put into consideration.
- Random Forest The random forest algorithm is one of the most popular and powerful machine learning algorithms that is capable of performing both regression and classification tasks.

College Admission Predictor

Source:Journal of Network Communications and Emerging Technologies (JNCET) www.jncet.org Volume 8, Issue 4, April (2018) - https://www.jncet.org/Manuscripts/Volume-8/Issue-4/Vol-8-issue-4-M-32.pdf

The main goal of the system in the above paper is to automate the process carried out in the organization with improved performance and realize the vision of paperless admission.

It comprises of an idea of a computer aided method which will help the students get the list of all colleges in which they could get the admission at the click of a button.With this application, the students can very easily obtain the list of colleges even branch wise and course wise.It addresses limitations of current system such as reaching geographically scattered student for universities around the globe instead of applying for universities one by one.

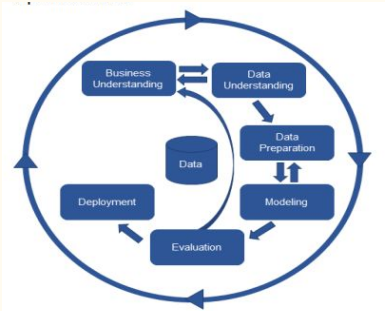
The above paper mainly focuses on letting students know colleges they could apply to with their scores based on conditions set by university admins on cutoff and doesn't necessarily predict from history of admissions about their eligibility which is what we wish to improve upon in our project.

Prediction of Admission Process for Gradational Studies using Al Algorithm

Source :European Journal of Molecular & Clinical Medicine:

link:https://ejmcm.com/article_1640_ae75161864a578bdb6c4e74c640756cd.pdf

In the present time there are plenty of scholars seeking after their instruction away from their nations of origin. The fundamental nation focused through these worldwide scholars is The United States of America. The popular of the universal scholars in the United States of America are from India and China. With the expansion in the quantity of worldwide scholars concentrating in the USA, every candidate needs to confront extreme rivalry to get admission to their fantasy college. This work is 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 straightforward UI will be created for clients to get to the framework.



Calculators

CollegeDunia-

https://collegedunia.com/college-predictor-Coillege

helps you understand your chances of getting accepted into college in India using JEE,NEET,DU etc.

Niche college admission predictor-

Helps you understand your chances of getting accepted into college in U.S using your SAT/ACT scores and GPA .

https://www.niche.com/colleges/admissions-calculator/

THANK YOU