Project Design Phase-I
Literature Survey

Date	15 October 2022
Team ID	PNT2022TMID44857
Project Name	University Admit Eligibility Predictor
Maximum Marks	2 Marks

S.No.	Title	Journal / Publication / Conference	Author(s)	Observation
1.	A Machine Learning Approach for Graduate Admission Prediction	IVSP '20: Proceedings of the 2020 2nd International Conference on Image, Video and Signal Processing March 2020	Amal AlGhamdi Amal Barsheed Hanadi AlMshjary Hanan AlGhamdi	In 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 to select the best model in terms of the highest accuracy rate and the least error. Logistic Regression model shows the most accurate prediction in this model to predict the future applicant's university chance of admission.

2.	An Automated Prediction Model For College Admission System	Ilkogretim Online - Elementary Education Online,2021;Vol 20(Issue 6):pp.1172-1180	Dr. Arunakumari B.N Vishnu Sastry H K Sheetal Neeraj Shashidhar R	This paper helps students to fill their preferences at the time of option-entry process accurately and ease of making better choices of college before allotment and also deploy a web application for college admission system.Students will be allowed to give their preference list of colleges and branches,which is also known as the option-entry process.then based on rank,category and preference list given by the student,college and branch will be allotted to them by the authority but in this method many students make mistake in their preference list.This system help in solving this problem using data mining and data analysis.
3.	CAPSLG: College Admission Predictor and Smart List Generator	2nd International Conference on Advances in Science & Technology (ICAST-2019)	Kiran Kumari Meet Kataria Viral Limbani Rahul Soni	The CAPSLG system consists of a smart list generator working together with the help of the college predictor, to aid students in the admission process. The college admission predictor uses historical colleges cut-off students admission data for predicting the most probable colleges. The system analyzes student academic merits, background, and college admission criteria. Based on that, it predicts the likelihood of a university college that a student may enter. The smart list generator would enable the student to prepare the list of colleges, which could be needed to be filled in during the admission process. The system would also get feedback from the users, which would prove helpful for prediction evaluation, improving the performance factor.

4.	Improving Student Enrollment Prediction Using Ensemble Classifiers	International Journal of Computer Applications Technology and Research Volume 7–Issue 03, 122-128, 2018, ISSN:-2319–8656	Stephen Kahara Wanjau Geoffrey Muchiri Muketha	In this, they train an ensemble of classification models from enrollment data streams to improve the quality of student data by eliminating noisy instances, and hence improving predictive accuracy. They empirically compare their technique with single model based techniques and show that using ensemble models not only gives better predictive accuracy on student enrollment in STEM, but also provides better rules for understanding the factors that influence student enrollment in STEM disciplines.
5.	Prediction for University Admission using Machine Learning	International Journal of Recent Technology and Engineering(IJRTE) ISSN: 2277-3878 (Online), Volume-8 Issue-6, March 2020	Chithra Apoorva D A Malepati ChanduNath Peta Rohith Bindu Shree S Swaroop S	In this model, several machine learning algorithms have been used: K- Nearest Neighbour and Linear Regression, Ridge Regression, Random Forest are used to develop a model which tell the students their chance of admission into a respective university with the high accuracy of predicting.
6.	College Admission Prediction using Ensemble Machine Learning Models	International Research Journal of Engineering and Technology(IRJET) Volume: 08 Issue: 12 Dec-2021	Vandit Manish Jain Rihaan Satia	In this study, for accurate predictions, trained a machine learning model in order to provide results. The dataset contains information on the student profile and the university details with the field detailing if the admission was positive or not. Various algorithms have been used i.e. Ensemble Machine Learning and the predictions have been compared using key performance indicators(KPIs).
7.	Multiple Machine Learning Classifiers for Students Admission to University prediction.	International Journal of Engineering and Advanced Technology (IJEAT) ISSN : 2249 - 8958,	Anil B Akram Pasha Aman Aman Kumar Singh Aditya Kumar Singn	In this study, the combination of linear and non-linear machine learning algorithms: Logistic regression, Decision tree, k-NN and Naive bayes have been chosen to perform the prediction of target class of unseen

		Volume 8 , Issue - 5S, May 2019.		observation by polling.
8.	Graduate Admission Prediction using Machine Learning	International Journal of Advanced Research in Science,Engineering and Technology Vol. 8, Issue 7, July 2021	Sara Aljasmi Ali Bou Nassif Ismail Shahin Ashraf Elnagar	This Paper addresses machine learning models to predict the chances 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 multi linear regression, k-nearest neighbour, random forest, and multilayer perceptron. Experiments show that the multilayer perceptron model surpasses other models.
9.	Predicting academic success in higher education	International Journal of Educational Technology in Higher Education 17, Article number: 3 2020	Eyman Alyahyan Dilek Dustegor	This journal conveys various data mining methods like clustering, data cleaning, association,machine learning, data visualization, classification, neural networks, and prediction.It provides prediction of results in various levels like Degree level, Year level, Course level and Exam level prediction.
10.	Graduate Admission Prediction using Machine Learning Techniques	International Journal of Advanced Research in Science, Engineering and Technology Vol.8,Issue 7 , July 2021	K.JeevanRatnakar G.Koteswara Rao B.DurgaPrasanth Kumar G.Prithivi D.Venkata SaiEswar	In this, the model is trained with four regression models like Multiple Linear Regression, Random forest Regression,Multiple Linear Regression using Dimensionality reduction and Random forest Regression using Dimensionality reduction to find the accuracy in prediction.