Project Design Phase-I
Proposed Solution Template

Date	05-10-2022
Team ID	PNT2022TMID37213
Project Name	UNIVERSITY ADMIT ELIGIBILTY PREDICTOR

Proposed Solution :

S NO	PARAMETER	DESCRIPTION
1.	Problem Statement (Problem to be solved)	• University Admit Eligibilty Predictor machine learning techniques. Our model predicts the percentage of chance to get admission in University . • Prediction of University using parameters such as score obtained in previous grade.
2.	Idea / Solution description	• University admit eligibility model using the principal component analysis followed by decision tree classification. • Firstly, University admit eligibility predictor is calculated . • Secondly, algorithms were tested and their performance was evaluated based on different factors like Accuracy, Sensitivity, Specificity and Kappa value. As can be seen the figure given below model created using K-Nearest Neighbor outperformed the model created using Logistic Regression on all the performance measures. • Thirdly, The KNN model performed well with an overall average accuracy of 76%. The decision tree model which was created to predict the rank of the universities suitable for the student provided the result with an accuracy of 80%.Finally, the decision tree classifier model is utilized to classify the water quality status.
3.	Novelty / Uniqueness	• In this prediction, KNN proved to best-fit for development of the system when compared with the Logistic regression model.

4.	Social Impact / Customer Satisfaction	• The main objective of this project is to help the students to save their time and money that they have to spend at the education consultancy firms. It will help them to limit their number of application to a small number by proving them the suggestion of the universities where they have the best chance of securing admission thus saving more money on the application fees.
5.	Business Model (Revenue Model)	• No Cost
6.	Scalability of the Solution	• The solution is highly scalable as we use Machine learning technique . • Automated system can be build on website to college students for higher education.