REPORT ON Identifying Patterns And Trends In Campus Placement Data Using Machine Learning

PROJECT DONE BY:-

SAVRAM POKHRAN ROYAL

TEAM NAME :- code mai

Abstract:

A placement predictor is to be designed to calculate the possibility of a student being placed in a company, subject to the criterion of the company. The placement predictor takes many parameters which can be used to assess the skill level of the student. While some parameters are taken from the university level, others are obtained from tests conducted in the placement management system itself. Combining these data points, the predictor is to accurately predict if the student will or will not be placed in a company. Data from past students are used for training the predictor.Machine learning is a method of data analysis that automates analytical model building. These models help you to make a trend analysis of university placements data, to predict a placement rate for the students of an upcoming year which will help the university to analyze the performance during placements. Many students look at universities as a means of investment which can help them make a great future by getting placed in good companies and which will relieve their stress and unease from their lives before graduating from the university. The trend will also help in giving the companies reasons as to why they should visit university again and again. Some attributes play the very important role while analyzing the student for e.g. Student's name, Department, Company, Location and Annual package. So, classification can help you to classify those data and clustering helps to make the clusters department wise. In this paper we have used neural networks to predict the upcoming student placement and got 77% of accuracy while testing were iteration are 1000. Through extensive trend analysis of varies complex data collected from different sources, we can demonstrate that our analysis can provide a good pragmatic solution for future placement of students.

1. INTRODUCTION

1.1 ABOUT placement prediction

The higher educational institutions have capacity of knowledge such academic performance of students, statistical details of students and various types of information in the hidden form. Now a day's data Mining techniques have a great importance in educational data set as it is rising daily. It is one of the computational processes that extract useful patterns or relationships from raw data. In educational field it is to increase learning process such as identifying, evaluating variables, extracting data set from the learning process. The campus placement of the students plays an important role in an educational institution. Prediction system could help in the academic planning of an institution. A placement prediction system helps students to have an idea about where they stand and what to be done to obtain a good placement. A placement predictor is a system that could predict the chances or the type of company a pre-final year student has chances to be placed. This system is necessary for predicting student's placement using Data Mining Techniques by considering the student dataset which is uploaded by TPO. This system is built by utilizing the Logistic Regression algorithm. In machine learning, LogisticRegression are supervised learning models with associated learning algorithms that analyze and survey data used for classification and regression. It is simply a co-ordinate of individual observation. It's very crucial for cases where very high predictive power is required. Such algorithms are smaller harder to visualize because of the more complexity in formulation.

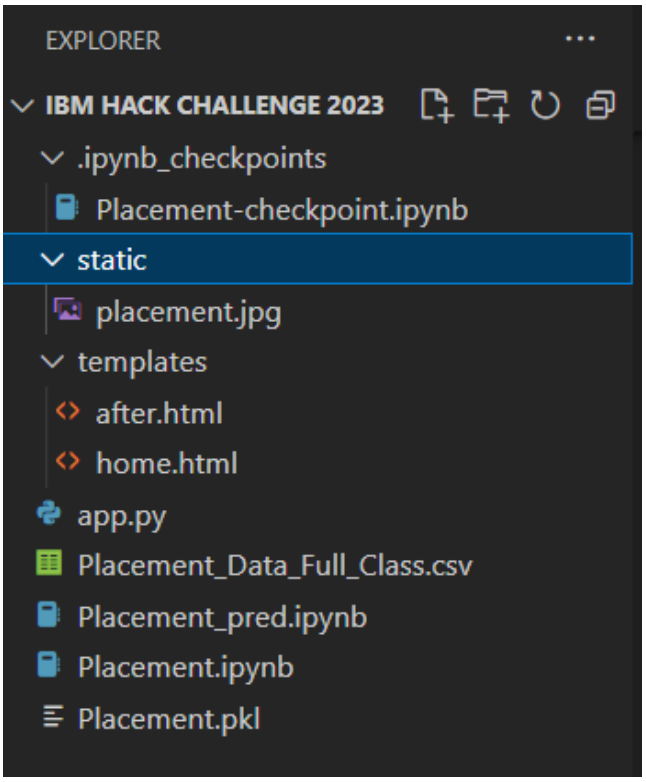
2. PROPOSED METHODOLOGIES

2.1 OBJECTIVES

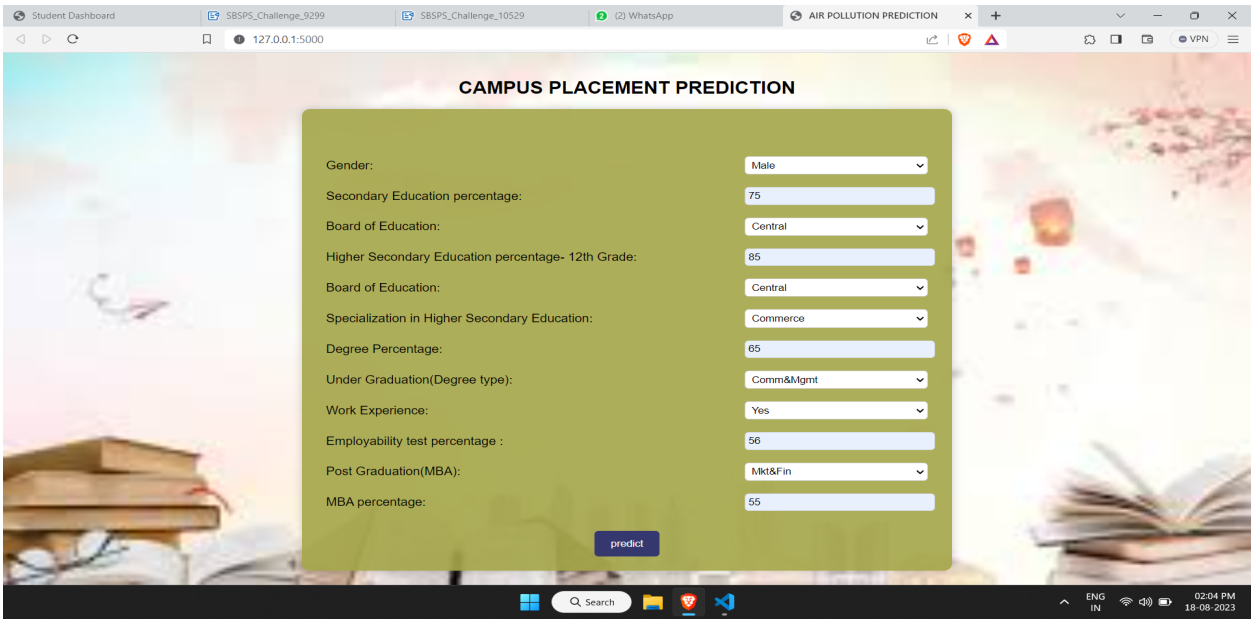
In Placement Prediction system predicts the probability of a undergrad students getting placed in a company by applying classification algorithms such as LogisticRegression algorithm . The main objective of this model is to predict whether the student he/she gets placed or not in campus recruitment.

3. Implementation FIG.

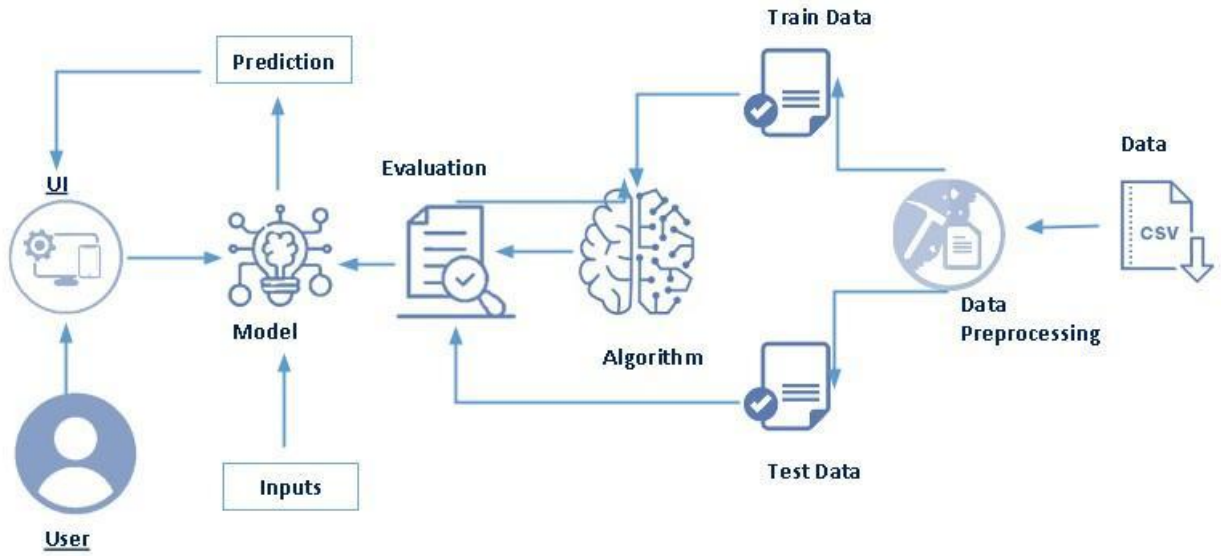
3.1 Structure of Project



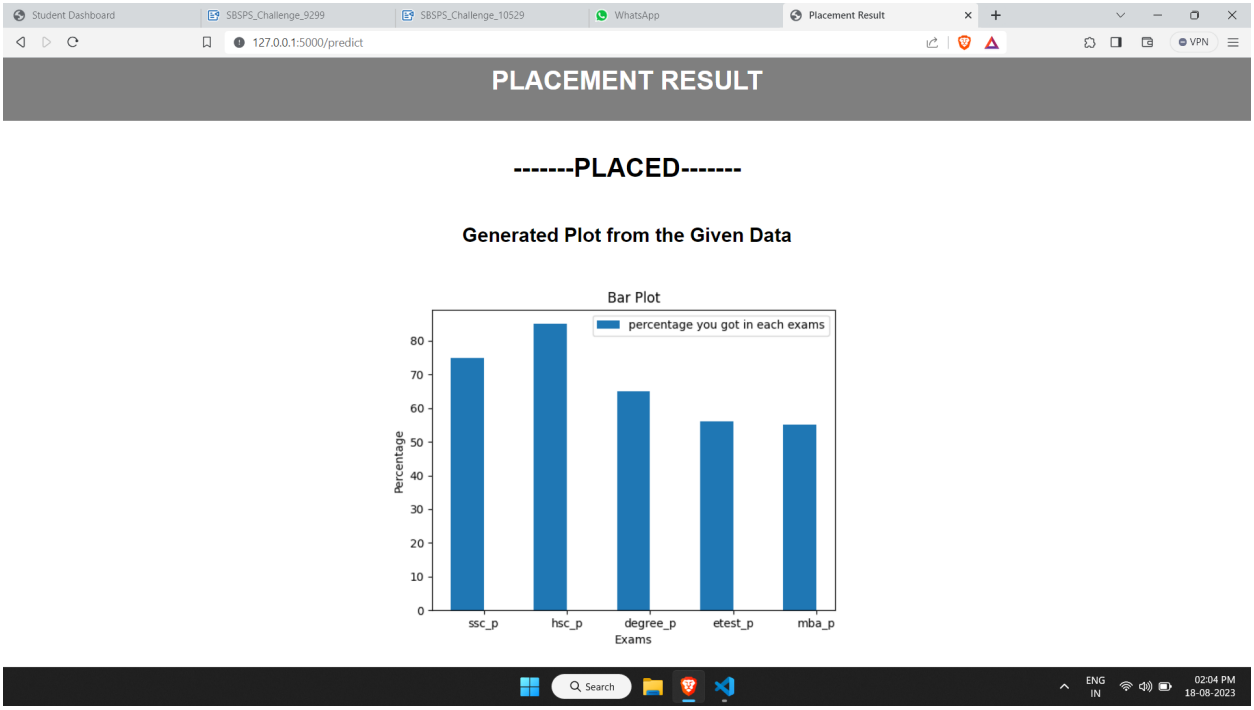
3.2 User Interface



3.3 The process for producing Output



3.4 Output User Interface



4. Future scope

The future enhancements of the project are to focus on adding some more parameters to predict more well organized placement. The placement prediction system predicts the probability of students getting placed in various companies.

5. CONCLUSION

TPO's manual student placement class prediction is a challenging task. Utilizing data mining, we can fix this issue and aid in the placement of students' predictions. Our recommended system uses a technique for predicting student placement that predicts a certain student's placement using algorithm: LogisticRegression.