Team Name : Goblet Of Fire

Team Size : 1

Bussiness Challenge : Identifying Patterns and Trends in Campus Placement Data using Machine Learning

General Description

>The solution for this particular problem statement is to make a **classification model** such as **Logistic Regression or Random Forest** which can easily and precisely classify between binary outcome (eg:placed, Not-placed).**Random Forest** model will be best fit for achieving the requirements. After prediction we can provide a personalised feedback to improve placement process, and provide support to student.

Novelty / Uniqueness:

>To make my solution better I will apply **linear regression model** in addition to the classification model so that **avg. salary will get predicted for those who got placed. And will also provide feedback for not-placed category.**

Business / Social Impact:

>The university or colleges can then **shortlist** there student based on their result on our model which can **increase the percentage of college placements.**
>HR teams and campus placement coordinators can use the insights from the model to make informed decisions about which colleges or courses to target for recruitment drives, thereby optimizing their efforts and resources.

Technology Architecture:

>Architectural flow:
The project will be made on python notebook and will used **sklearn, pandas, numpy, seaborn libraries**.
1)Python Notebook will be used for preparing model
2)flask library will be used to deploy the model
3)Ibm cloud service will be used to serve the model

Scope of the Work:

1)Data cleaning, analysis and preprocessing.- using numpy, pandas module
2)Visualisation of data.- using Seaborn module
3)Fiting data in algorithm. using sklearn module.
4)Making .pkl file - using pickle module.
5)Deploying - using Flask,Ibm.