Trend Analysis In Campus Placement

Abstract:

The purpose of this project is to conduct a comprehensive trend analysis of campus recruitment to identify recent challenges faced by employers and graduates.
By understanding the identified problems thoroughly, we can implement data-driven solutions to enhance the recruitment process.
Addressing skill gaps, integrating relevant technologies, adapting to remote hiring, and prioritizing retention will enable a more efficient and successful campus recruitment ecosystem that benefits both employers and graduates in the dynamic job market.

Scope and Motivation

Creating an exploratory analysis in Campus Recruitment process
Creating an visualization analysis by the Recruitment dataset
Finding Data Pattens in the given Analysis
To predict whether a student got placed or not using classification models

Introduction:

In today's dynamic and competitive job market, campus recruitment plays a pivotal role in connecting educational institutions with corporate organizations.
The process serves as a bridge between fresh talent and industry demands, shaping the career paths of students while fulfilling the human resource needs of companies.
In this era of data-driven decision-making, understanding the trends and patterns within the campus recruitment process becomes crucial for both educational institutions and recruiting companies.

objective:

This project is beneficial for college students, companies visiting the campus for recruitment and even the college placement officers.
This system allows the students to create their profiles and upload all their details which is further used for predicting the percentage of getting placed in the company.
This system is used for filtering the students, based on the company requirements.
Previous studies have utilized machine learning algorithms to predict students' placement training.

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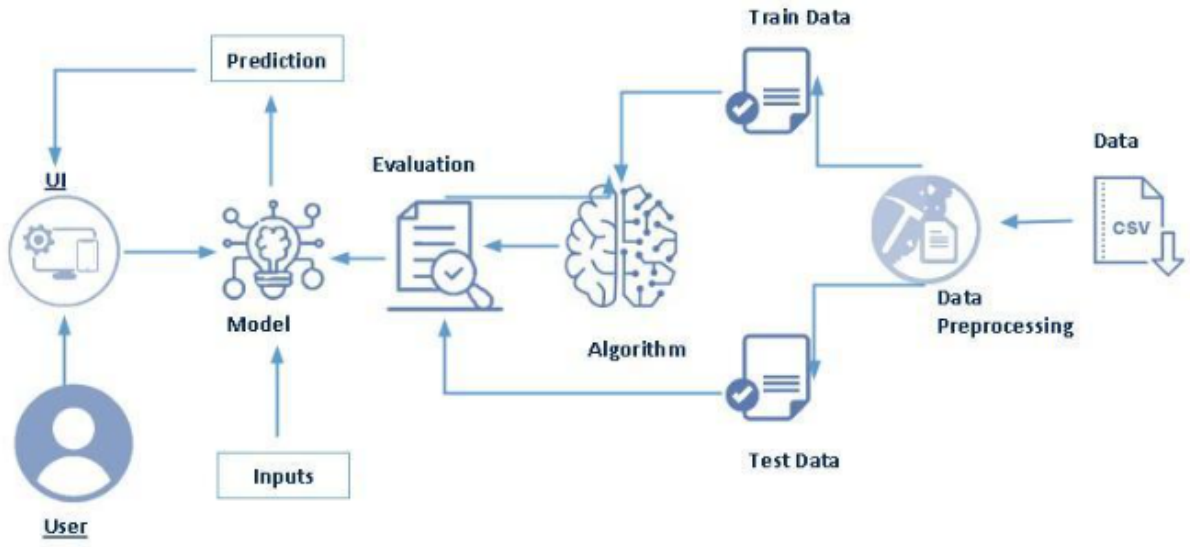
problem statement:

In the existing system, recruiters post messages commonly for all students in the placement recruitment platform.
Whereas, we implement to create suggestion for students to select their dream company by using the details which they give resume as input.
Using machine learning algorithms, the resume get analyzed and give suggestion to students regarding the companies to select and for the companies that they are eligible to apply for it.

Architecture Diagram:



Novel idea:

The existing system is simple and shows only basic details or information to the users.
Our idea is to Create a suggestion whether the student gets placed or not in campus recruitment. For this the different machine learning algorithm are applied to determine the accuracy of the algorithm .
At final comparison between students who are applied on the company with the selected previous years students are displayed to the student.
We implement the detailed information features for the user placement growth which they can improve according to the instructions.

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Modules:

Modules are Classified into four types namely
Collection of Data
Data Preprocessing
Model Building
Visual Analysis

Model Description:

Collection of Data:
The data given by the students such as name,
branch,10thmarks,12thmarks,cetificates,internship and company name
Data Preprocessing
these data are cleaned and splitted into training and testing data Data different types of machine learning algorithm are used to determine accuracy of the model
Model Building
Importing the necessary model building libraries and then Initialize model by dividing the data into Training and testing the model to Evaluate the performance of model and then Save the model
Visual Analysis
The resultant data will be the student to who can be placed with certain requirements will be compared given data in a pictorial representation

Hardware Requirements:

IV Processor: intel core i311th gen
Hard drive: 1TB
RAM: 4GB

Software Requirements:

Operating system: Windows 11
Front-end: Java Script, CSS, HTML
Back-end: Python

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outcome:

The study demonstrated that machine learning algorithms could be successfully appropriated to predict job placement based on students detail and company requirements.
Future research recommendations would be to conduct similar research on other disciplines.
Furthermore, a subsequent research step from the results of this study is to develop a remediation program for students who were deemed weak in essential areas.
The remediation program results can be tested, and its effectiveness measured and later be also utilized to develop a predictive model