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TPO AND STUDENT CAMPUS DRIVE MANAGEMENT

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Abstract - The availability of information and the facility for the user to take action on the information collected have been revolutionized by the use of the Internet and the World Wide Web. The placement process can be managed using the internet which arises a need to develop a web-based placement management system specifically by the recruiters and the software engineers that can be used as a Recruitment system (Online TnP portal). This system can be used as an application for both candidates and recruiters. Advanced features for recruiters are available as they can shortlist candidates for further rounds according to their requirements on the basis of the probability obtained. The current recruitment system recruiters do not possess candidate information apart from his/her CV. This proposed system aims to analyze the candidate performance and recommend candidates fittest for the job using Random Forest Regressor algorithm that will help to maximize the placement probability of candidates easing the recruiter's task. Random Forest builds multiple decision trees and merges them together to get a more accurate and stable prediction. This system will provide ease and efficiency in recruitment process.

Key Words: Blockchain, KYC,IPFS,DLT

1.INTRODUCTION

The availability of information and the facility for the user to take action on the information collected have been revolutionized by the use of the Internet and the World Wide Web. The placement process can be managed using the internet which arises a need to developa web-based placement management system specifically by the recruiters and the software engineers that can be used as a Recruitment (Online TnP portal).Recruitment system is an online application for organization as well as company usage. To manage the student information regarding placements, the college Training.

predictor is a device that can forecast the probability or form of business that a student in the pre-final year has chances of placing. The proposed system provides the facility of maintaining the details of the students and getsthe requested list of candidates for the company who would like to recruit the students based on given skill. The aim of our project is to reduce maximum chances of errors in the manual work and save time as well as to make the students aware of their strengths and weaknesses for better placement opportunities.

2. PURPOSE

The proposed system provides the facility of maintaining the details of the students and gets the requested list of candidates for the company who would like to recruit the students based on given skill. The aim of our project is to reduce maximum chances of errors in the manual work and save time as well as to make the students aware of their strengths and weaknesses for better placement opportunities. Key objectives and purposes of a farmer chatbot include:

1.To Secure and faster for sharing sensitive information

2.To Secure and faster for sharing sensitive information

3.To allow third party verification

3. EXISTING SYSTEM

All processes in existing system are handled manually. All the work that is donein the existing system is done by the human intervention .As all the work is done manually, there were a lot of workload on placement officer and it also increases the maximum chances of errors. This is so slow and time consuming. Due to increase in number of users process become more difficult.

system are as follows-

• Searching of eligible students is done manually byTPO based on the company criteria.

• The records were stored in modified excel sheets hence sorting problem

.• The duplication of records was usual hence data

redundancy.

• TPO's have to collect all the information and Resumes of students and organize them manually and sort them according to various streams.

Collecting CV's of so many student is a painful and time consuming task andhandling of too many CV'sis a great overhead.• It takes too much time to managing, updating and informing specific student for specific company criteria

4. OBJECTIVE OF SYSTEM

Automated Process:

Streamline and automate the processes involved in the management of campus drives, from initial planning to the final placement of students.

Placement Analytics:

Incorporate analytics tools to assess the effectiveness of placement processes, including success rates, feedback from companies, and areasfor improvement.

Training and Support:

Provide training and support for administrators,TPO staff, and students to effectively use the system.

5. LITERATURE SURVEY

Paper 1: Generating Placement Intelligence in Higher Education Using Data Mining:1.K-Means Clustering: K-Means is one of the simplest unsupervised non hierarchical learning methods among all partitioning based clustering methods. It classifies a given set of n data objects in k clusters, where k is the number ofdesired clusters and it is required in advance.

2. J-48 Algorithm: C4.5 is an algorithm used to generate a decision tree developed by Ross Quinlan. C4.5 is an extension of Quinlan's earlier ID3 algorithm. The decision trees generated by C4.5 can be used for classification, and for this reason, C4.5 is often referred to as a classier It induces decision trees and rules from datasets, which could contain categorical and numerical attributes. The rules could be used to predict categorical values of attributes from new records.C4.5 builds decision trees from a set of training data in the same way as ID3, using the concept of information entropy. This paper presents solutions to two main problems related to segregation and prediction.

B. Paper 2: Performance Analysis of Undergraduate Students Placement Selection using Decision Tree Algorithms We could use decision tree algorithms t o predict student selection in placement. this paper describes how the different decision tree algorithms used to predict students performance in placement.

DECISION TREE ALGORITHMS:

ID3 (Iterative Dichotomiser): It works on the principle of the Occam's razor and used to create the smallest possible decision tree. It takes all the attributes which are unused and promotes the calculation of entropies which are used to measure the informative of node. It also scans and chooses the attribute which has the entropy is less or when information gain is large.

Successor of ID3: C4.5 is a popular algorithm wh each is used for the generation of a decision trees. It is an advanced level of the ID3 algorithm which is designed to overcome its limitations. The decision trees generated by this algorithm are used for prediction and it is a classifier of statistical type.

6. SYSTEM ARCHITECTURE

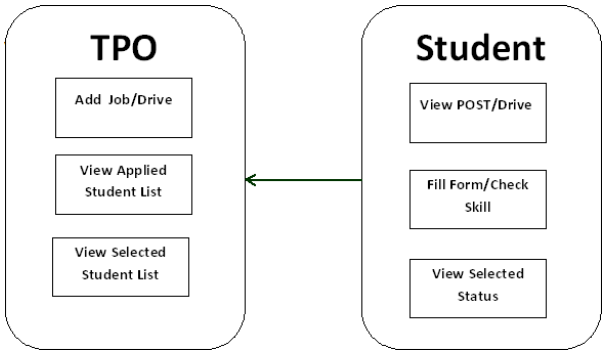


Fig -1: System Architecture Diagram

7. IMPLEMENTATION DETAILS

Implementing a TPO (Training and Placement Office) system involves meticulous attention to various aspects to ensure its effectiveness in managing the placement process for educational institutions. The implementation process begins with defining user roles and implementing robust authentication mechanisms to secure access to the system. This includes setting up role-based access control to manage permissions for students, recruiters, and TPO staff.

A crucial aspect of the system is student management, which entails developing features for student registration, profile creation, and the ability to upload resumes and other relevant documents. Additionally, recruiters need to be able to register on the platform, post job openings, and manage applications from students.

Job posting and application management functionalities are essential components, requiring interfaces for TPO staff to approve job postings and manage the application process. This involves providing students with the ability to search and apply for job opportunities, while recruiters can review applications and schedule interviews.

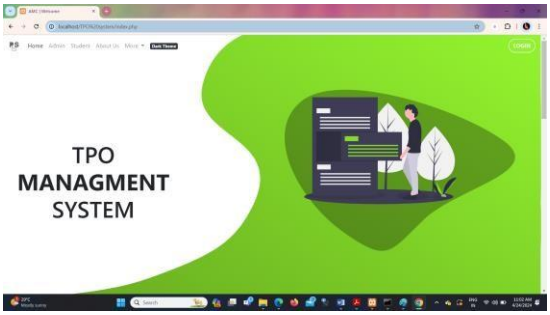
Interview scheduling and management features facilitate the coordination of interviews between students and recruiters, ensuring smooth communication and scheduling. Placement analytics play a crucial rolein evaluating the effectiveness of the placement process, with reporting tools and dashboards used to visualize placement data and track trends over time.

Alumni engagement features enable alumni tostay connected with the institution, access job opportunities, and mentor current students.

System administration and maintenance tasksinclude setting up administrative tools, monitoring system usage, and ensuring data security and privacy compliance.

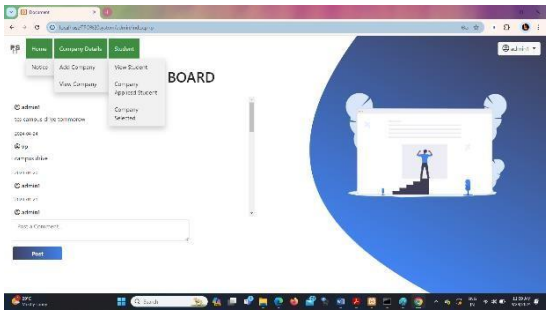
8. RESULT

1. Home Page

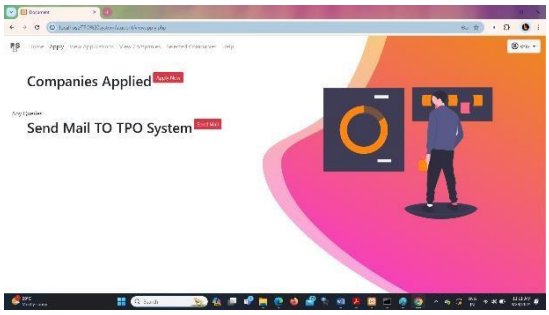


2. Admin Login

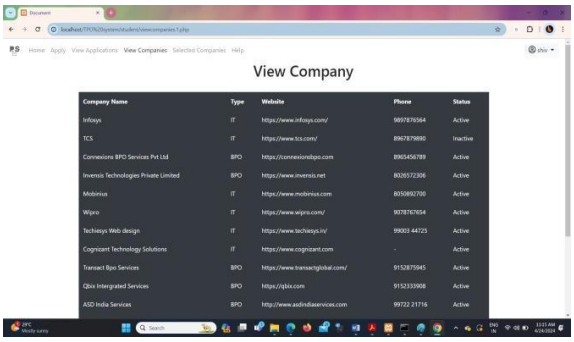
3. Admin Dashboard



4. Student Dashbord



5. View Company



9. CONCLISION

The proposed system consisting of dynamic prediction uses machine learning to predict the placement probability of candidates dynamically using parameters such as CGPA, HSC marks, and SSC marks. It overcomes the limitations of the current recruitment system which displays discrete values and gives an idea about placement to the candidates. The scikit learn module provides us with a random forest regressor algorithm which helps in generating probabilities with accuracy for large datasets and hence is comfortably suited for large datasets and hence is comfortably suited for this purpose. Companies generally look for candidates with certain skill sets such as python, C,ets. The proposed system also provides static prediction which is used by companies to bifurcate students based on their skills and domain. The recruiter can generate the company criteria and searching, sorting can also be performed. Alumni data can also be maintained

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