

## **DESKTOP BASED RECOMMENDATION SYSTEM FOR CAMPUS RECRUITMENT USING MAHOUT**

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**Abstract-Desktop based recommendation system automates the all the activity of the training and placements cell provide the opportunity to the student to use the system to increase the ratio of the selection of the student also to provide the all the facility about Training and placement (TnP) cell. It takes input from the user as Resume and after that the mahouts naive biased algorithm are use to classify the data of the resume for the purpose of pattern matching. In our system there are mainly three modules such as student, company and pattern matching. student upload the resume after that mahout algorithm classify the data of the resume .when company register the TnP and they decides criteria after that pattern matching is done about the classified data and criteria of the company and the the number of student is return which has match the company criteria. Student also gets the important document for our system which is used for the preparation for the company drive.**

**Keywords- Data Mining, Pattern Matching, Mahout Algorithm, TPO, TnP.**

### **I. INTRODUCTION**

Internet has been the most useful technology of the modern times which help us not only in our daily lives, but also our personal and professional lives developments. The internet helps us achieve this in several different ways. For the students and educational purposes the internet is widely used to gather information so as to do the research or add to the knowledge of any sort of subject they have. This led to develop a web based placement system. So that anyone with a proper logging can access it from anywhere. This system will help us to do all the placement tasks automatically. This system is developing to improve the existing system. Drawbacks of existing system can be removed by this system.

This system has improved functionality. It has the functionality of maintaining important data required for placement and students information very efficiently. With this system there are less chances of data loss. The time required for maintaining all the data manually will be reduced with this system. All the data will be maintained automatically with the help of this system. We can save a lot of time. Students can get information regarding the arriving companies with this. Students can get all the data at one central place. They can access to this information from anywhere with a proper logging.TPO can get the list of eligible students

among all automatically with this. TPO can access this system with a proper logging. She/he can access all students' resumes. He can go through them all. As soon as he uploads the information regarding the upcoming placement drives he'll get a list of eligible students allowed to sit for the drive. This will be all automatically done. This system will reduce a lot of workload of TPO.

## **I. PROBLEM DEFINITION**

In an existing system, all the process is done manually. The admin of TnP should refer to kept all the record for some year ago. This is time consuming and tedious System. This process is difficult because of a day by day the user are increases .so some limitation of this existing system. In manual training and placement system, all the work Training and placement system is by human intervention due to this the number of error are increases. The communication between student and admin is maximum which makes system time consuming.

Student are submitted their resume in the year ,leaving them frozen in time.the list were produce for each company and problem for all student to check the notice board daily which company is coming and what is criteria and when is coming on. In problem on excel sheet we cannot retrieve the require data of the student because for example company required 60 + student marks and no backlogs there so we cannot find the query for retrieving such criteria in existing system. There is many problem occur in retrieving the particular data.

The finding the student is done manually based on the criteria of the company TPO will be identifying the eligible student form the data. So the problem to finding the marks for the particular student so TPO has to check all data of the all student so the time will be increase. After that number of student all found so TPO has to generate the report of the student so it takes more time. For generation of excel sheet hehas to check the entire resume and enter the data into database so there is problem of wrong entry.

## **II. PROPOSED SYSTEM**

The proposed Desktop based recommendation system to give more easiness to the user for they can retrieve or add more information quickly. Once you open this website you will see the front end so this is available to everyone. In that all users have its own login is available. There are three user TnP, student and Company. In each user have different functionality such as for TnP manages the students database then company data then alumni and this database should be update delete or modify for the better performance.

In our system we have to add such new functionality is that the first five alumni are seeing in the homepage and we can see the placement profile for such alumni.Student can see or download the entire important document such as notes of the particular subject or most frequently asked technical question aptitude question.

When TPO has get login, they see which company newly added and what the criteria for the company and also number of vacancies. Then he add the some additional information to the database this information is required for the student .In that when company is coming in our college and so on. After the confirmation all the criteria student get this notification via SMS and mail.

In company first login, they see the how many students are eligible for the drive and all the required information for such student.

When student has login, they see profile in that he/she fill the some details such as profile picture and the qualification and he/she upload the resume. Whenever he required resume he/she can directly download for our website.

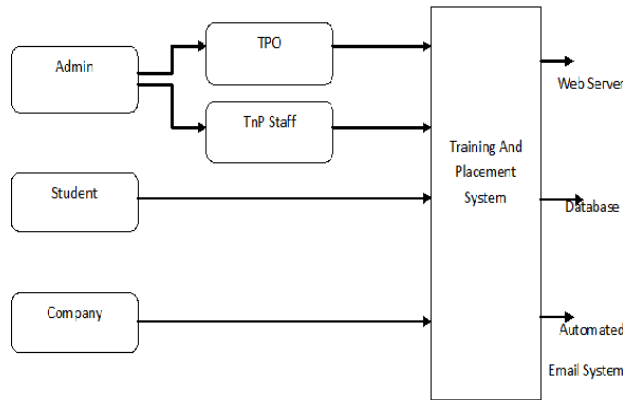


Fig 1 Block Diagram

### III. IMPLEMENTATION

In implementation include those activity that convert old system to new system. In new system are totally new replacement of existing manual or automated system .

#### A. Module in Training and Placement System

1) TPO: TPO can view, edit and access information of the user TPO can see newly created user or updated user. TPO can generate the number of vacancy and informed the user bay using email. TPO can search the requirement of the company means profile of the company and add the important study material to the site so all student can access the study material. Also TPO add the placed student. Also generate the company wise report class wise report and place student report and unplaced student report.

2) Student: once student open the site he will see the all the important notices in home. Once student login, they will see the homepage in that he added or fill up the profile .they have to proved SSC percentage, HSC percentage if not then will put zero. They can download the all the required study material and placement paper. They can see the registered company and also upcoming company.

3) Company: Company can register firstly. In company module contact information Papers, vacancies will be provided, company can see the how many eligible student based on

criteria of company. Also company can download eligible student report.

#### B. Module for Pattern Matching

In this module is done through by Mahouts algorithm for the purpose of classification of data and further process. There are two inputs for this module one is classified resume data and another is company criteria in that following process will be done in Fig. 2.

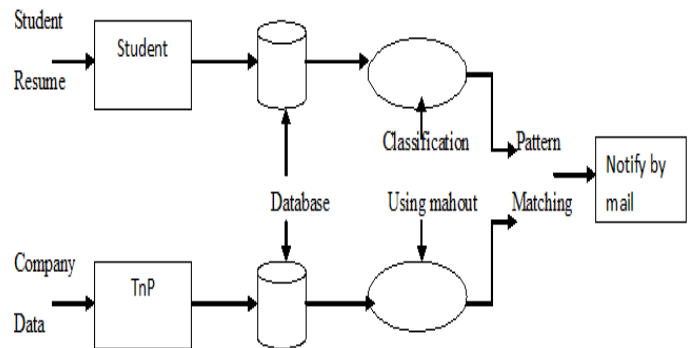


Fig 2 Pattern Matching

### IV. RESULT AND DISCUSSION

The Homepage of Desktop based recommendation system for campus recruitment is shown in Fig.2 Left side there is different notice on notice board .middle part is shows some college picture. Right side there is two section first is login .The menu bar contain about us, contact us, student registration, company registration etc. options.



After registration of user can logon the system. For login they can select login type Such as TP, Student and Company then can enter password after authentication the user will navigate to the home screen.

## **V. CONCLUSION**

In existing system maximum work are done by manually so it is error prone system, so we take this as challenge for us for developing a given type of system. The big problem of sorting updating and searching student data and no any notification in existing system so we provide this facility to the student. The System gets automated in the registration of all the user, activation and also deactivation of the user. All the required resource to be provided online to the user.

## **VI. FUTURE SCOPE**

The Training and Placement system is designed for good possible excellence. Still we remove or overcome the human efforts and drawbacks of existing system. The system can be made good user friendly .In this system have not SMS functionality so this can be added without any affecting the module.

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