A Survey Paper on Recommendation System for Placement Interview Title

Logesh R[1], Dhinesh Babu R[2], Gokul Anand R[3]

[1,2,3] Information Science and Engineering, Kumaraguru College of Technology, TN, India.

Abstract: *The process of identifying the right person for the right job manually is tedious and time-consuming. Data analytics can be involved in automating this process to make it easy and efficient. This article focuses on identifying eligible students for a placement interview based on the placement requirement and skill set of the person. Student Academics and Placement Analysis was carried out to display the student, faculty details where the admin will be having access to modify the details. To give a view on student marks in a detailed version it would be helpful. In addition, notification will be sent to the right candidate through SMS and Email if his skill set matches with the placement requirement. It was necessitated because of some setback in manual result processing. It processed result will be shared with the placement cell in order to choose the eligible candidate for the drive. Its result processing characteristics include the calculation of Grade Point Average (GPA), generation of result sheets, and transcripts. By automating the processes such as the collection of the skill set of candidates, identifying the right candidate, intimating interview date and time to the corresponding candidate, this recommendation system takes a vital role in academic institutions, particularly in placement departments. It helps to reduce manual work, save time, and make students prepare for placement in advance.*

Key Word*: Data analytics; display details; notification through SMS and Email; skillset; placement drive*

I.INTRODUCTION

Analysts observed that the usage of computers is wide in viewing students' profiles and marks briefly, seamlessly, and interactively and monitoring them. It is also easy and efficient to maintain student academic details. This detail is also sharable so that it is easy for the others also. Using this, a placement recommendation system can be used to make students prepared at a given time and for calculation of marks, maintaining student details

Details such as name details, subject codes, subject name, credit details, mark total, and received marks with SGPA and CGPA are the most required for getting a job and further. The admin maintains the system updated with details given. The faculty also has the details of the students which they update with the access by the admin and though if the details have any errors, the student mentions the faculty, and then the faculty get access from the admin, and then the problem will be solved. As part of the process of the placement cell, they analyze the skill set of the students with the updated details and send the placement opportunity intimation to the identified candidates.

This computation of marks will be useful mainly for faculties who struggle and strain to enter a load of data which gets minimized and students getting to know their co language and pursue it and getting results accurately. The major aim of this Student Academics and Placement analysis project is to lower the burden of the faculties by calculating the grades, CGPA, etc... and entering a long list of data. It can be solved with an excel sheet as input and with fewer mistakes. As well as for students, viewing their results in an understanding way and getting the proper information regarding placements. Also, this will be fast access and permit easy for students as in viewing results because of being computerized everything in a simple website with simple databases. These features are done and viewed as web applications. At first, the login page will be displayed, for new users with a registration page. The users are students, faculty, and admin.

Then the profile page of the user is displayed where for admin there is no profile. Students can view their marks and details. Faculty can view their details, calculate marks, give requests to admin to change or modify students marks or any other student's academic details which were uploaded by faculty. User details are stored in a database with details which they have registered on the registration page. The database can be fetched using MySQL. The role of placement cell for students except final years is to help them in advance to prepare for placement by sending mail/SMS regarding their performance in technical skills with matching eligibility criteria of company list and motivate them.

II. RELATED WORKS

Though the recommendation system is involved in many fields, it is essential in immediate decision making which may involve voluminous data. Many types of research exist related to recommendation systems.

Ansari Abrar Shaukat Ali et al., described the automation of result processing and highlighted the cumbersomeness involved in the manual result analysis process. The college department faculty are provided with the username and password through the email, where they will log in and subjects will be allocated to the faculty by the and according to their subjects, they enter the internal marks of student's subjects and, verifies the marks and generate the report of the sheet. Limitation in this project student

is not considered as a user for this system. [1]

daho et al., described a system that is Interactive and Intranet Portal required for effective management in higher-level Institutions as an enhanced and responsive method of managing and processing key issues in higher level Institution, Problem of result processing, Tuition fee payment, Library resource management are analyzed in this work and including an interface are being generated to handle this problem, the software is an interactive one. The issue with this project is it did not meet the actual design of this project. [2]

Akpasam Ekanam, et al., described that an automated system to manage the results of all students of different categories in an efficient manner is presented. Apart from student results, this project allows faculty to upload lecture videos on the website. This paper says that it completely satisfies all the needs in the objective. [3]

Udeze Chinedu et al., observed from this paper that an Automated student's result information system was carried out to automate the manual processes of compiling students' examination results. It was automated because of some drawbacks in the previously used result processing system. The system was designed to automatically take raw scores from the excel files and store them in a database. It holds information about students. This system uses the data of the course registered by the students to connect the uploaded results. The objective is to design an efficiently performing computerized system that will sort manually processing the result which can avoid a lot of paperwork and errors. Software maintenance issues in this project are Preventive, adaptive, and corrective maintenance was carried out on this system for future transferability of administration. **[4]**

Ashwin Mehta et al., outlined that Student Result analysis is a web-based application developed for colleges to analyze the result and keep track of students. We can see the individual candidate's results. The result of each department can be efficiently computed without much manual work. Then with the marks, it analyzes the student's performance. This project gives an efficient database. Walik Musa et al. described that in the proposed system, two related applications were designed, one to be used by course lecturers to enter students' scores and generate students' grades. The other application would be accessed by the departmental exam cell officer who is the admin of the system to generate GP, CGPA, SGPA, and forward to faculty. They used XAMPP in which the main tools are configured in advance to facilitate communication among various layers. This system was proposed to school management only. **[6]**

Nikhil Gupta grasped that the student Result Analysis and Performance Report Generator can be used in generation for the performance report of students according to the corresponding year, section, branch, and subject wise without any error efficiency by computer work. It allows users to visualize their performance as students. It is easy and simple to use. It can be accessed from anywhere through a browser. All the objectives of this project were tackled, and it works efficiently. **[7]**

Farheen Taqi Rizwi et al., observed that in this project, Students can update, delete, change their details in their profile details like a mark, CGPA, SGPA, etc … with the admin's permission. The placement cell can manage company details, view, and analyze student details. The placement cell also notified the students through email when a company drives placement drives. **[8]**

Ajeena Sunny et al. concluded about the paper that the goal of this project is developing a web application for the placement department of the college. The system is an application that will be accessed and effectively used throughout the organization with proper login enabled. It can also be used as an application for the placement officers in the college to manage the student information about placement thus reducing the manual work and consuming less paperwork. The system also provides the facilitating of viewing the personal and academic information of the student. The system gets the requested list of candidates for the companies who would like to recruit the people according to their eligibility criteria. [9]

Santhosh Kumar H et al., described that the system is an application that can be accessed throughout the organization with proper login provided. This system can be utilized as an application or software for the Training and placement officers (TPO) of the college to manage the student details concerning placement. Students logging in should be able to fill the registration form. The key feature of this project is that it is a one-time registration. This application delivers the facility of maintaining the details of the students. It also provides a requested list of candidates to recruit the students based on the given query. Administrators logging in may also search any information put up by the students. [10]

Rishikesh Bane et al. outlined that this paper describes that ASP focuses on the automation of the placement cell. It includes communicating about the various job openings to the students, authorizing the resumes, managing the corporate relationship for inviting them for the placements as well as other activities like supplying corporates with student resumes, creating the placement drives, tracking the progress of the selection process, communicating with different users, etc. This application provides a module for Student Administrator (TPO/ TnP Staff) and TnP coordinators with username and unique passwords. It helps in managing the Placement recruitment process of each Job posting individually, authenticating and activating the student profiles, sending notifications to students, creating a list of students as per company HR Manager Job Request, providing the list of the shortlisted students with resumes, export data of shortlisted students to excel file based on Search Criteria, set preferences for student eligibility criteria for placement, secured access to users, cv format will be uploaded by the admin as per each company requirement, cv can be downloaded by the students, view news and events, update student detail and their status with respect to placement, view reports of placement drives, make use of calendar to be aware of the schedule of company drive, list of students that have registered for the company and various other events happening under Training and Placement. [11]Navaneeth Kumar B et al., observed from this paper that this project is a web portal that can be used for the training and placement department of educational institutions where we will be having the admin portal, Student Portal, and Recruiter Portal maintained separately by the organization. The Admin Portal contains details of the student academic performance, Intermediate, Graduation, Cocubes, Amcat, Campus Recruitment Test,

and other recruitment exams conducted by various companies. The admin has access to update the student details into the database. [12]

Maryam Sayyed et al. described that the intent of the Placement Management System is to defeat the disadvantages of the currently preferred placement system. It enables the users to register online through their College Management System account

which is a website of college created for uploading attendance, term test marks, etc., read and apply for the company of their choice and get frequent updates regarding the placement drive from the college TPO.[13]

Sourabh Saloke Supriya Patil et al., from this paper, concluded that the College management system provides a simple interface for maintaining student information, staff information, and college-related information. It is necessary for the colleges to maintain the details of all students and different faculty of different departments. The student module application assigns students necessary details like student profile, attendance details, result details, batch details, progress details. It also alerts users regarding various academic notifications to all the faculty and students updated by the college administration. The faculty of a particular department is responsible for updating the attendance, assignment of every student, notification related to the department. [14]

Farheen Taqi Rizvi et al., described that this Placement Management System provides two distinct modules for placement officers and students. It allows students to register online and upload their academic and personal details. They will use their portal to update information as necessary and can view frequent and upcoming job openings on their dashboard. Whereas, the Placement Officers will be able to utilize it to manage the student data as well as the hiring company's data concerning the available jobs. [15]

M IIanchezhian et al. outlined that most of the activities of the college placement cell are automated by this application (Placement Activity System). It removes the manual repeated work done by the staff members of the placement cell. This system is a web application that can be used by the organization with proper login credentials provided by the admin. This application can be utilized by the Placement Officers of the college in order to manage the student information with regard to placement. Student-type users will be enabled to upload their information in a format of a CV. The key feature of this project is that it's a one-time registration. This project provides the feature of the maintenance of the details of the students. It also requests the list of candidates to intake the students based on their given query. Administrators-type users may also search the information uploaded up by the students. [16]

Akshay Venugopal et al., observed that this system allows the placement Training officer to manage student details and can send emails to the student about the upcoming placement drives. Students can view their profiles and register for a course online. Students can also know about the skill requirement needed by the company. [17]

References

[1]. Ansari Abrar Shaukat Ali, Muhib Lambay, Shaikh Mohd Rahil, Anas, Sami Ahmed Dange, "Online Marks entry System", International Journal of Advanced Research, ISSN: 2454-132X, Impact factor: 4.295 (Volume 5, Issue 2, page no: 1410 -1413, 2021

[2] . Idogho O. Philipa, Akpado Kenneth, James Agajo "Interactive Intranet Portal for effective Management in Tertiary Institution" (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 2, No. 6, Page no: 122 -129, 2011

[3] . Akpasam Joseph Ekanem, Simeon Ozuomba, Afolayan J. Jimoh, "Development Of Students Result Management System", Mathematical and Software Engineering, Volume- 3, Issue: 1, Page no: 26 – 42, 2017

[4]. Udeze Chinedu, "Automated Student's Result Management Information   System", Journal of Multidisciplinary Engineering Science and Technology (JMEST) ISSN: 2458-9403 Vol. 4 Issue 10, Page no: 8587 – 8601, 2017

[5]. Ashwin Mehta, Jugal Patel, Aditya Mewada "Student Result Analysis System", International Research Journal of Engineering and Technology (IRJET) Volume: 05 Issue e-ISSN: 2395-0056 p-ISSN: 2395-0072, Page no: 2578 – 2580, 2018

[6]. Walik Musa, Musa Bara "Advanced Automated and Result Processing System", International Journal of Engineering Management and Economics Volume: 03, Issue: 03, DOI:10.35629/5252-030313841391, Page no:1384 - 1391, 2021

[7]. Nikhil Gupta "Student Result Analysis and Performance Report Generator", Catalog Number V468852 ISBN (eBook) 9783668949119, Pages: 03, 2019

[8]. Farheen Taqi Rizwi, Naushin Arif Khan, Saurabh Sanjay Upadhayay "Placement /Management System", International Journal for Research in Applied Science & Engineering Technology ISSN: 2321-9653 Volume 9 Issue 1, Page no:69 - 76, 2021

[9]. Ajeena Sunny, Aneena Felix, Angelin Sajin, Praseetha V M "Placement Management System for Campus Requirement", International Journal of Innovative   Science   and   Research   Technology   ISSN No-2456- 2165 Volume 5, Issue 5, Page no:1705 – 1710, May– 2020

[10]. Santhosh Kumar H, Mrs. Srividhya V R, "Online Training and Placement Management System", INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY, IJERTCONV4IS22035, (Volume 4 – Issue 22), 2016.

[11]. Rishikesh Bane, Saman Khan, Sneha Munden, "Automated System for Placements", International Journal for Innovative Research in Science & Technology, Volume 1, Issue 12, ISSN (online): 2349-6010, Volume 1   Issue 12, 2015.

[12]. Navaneeth Kumar B, Vamsi Kandula, Praneeth Ambiti, K Hema, Kishore Buddha, "Student Analysis System for Training and Placement", International Journal of Recent Technology and Engineering, ISSN: 2277-3878, Volume-8 Issue-6, Page no: 3996 – 3999, 2020.

_[13]. Maryam Sayyed 1, Faiza Umatiya, Seemab Zehera, Prof. Shiburaj Pappu, "COLLEGE PLACEMENT MANAGEMENT SYSTEM", International Journal of Creative Research Thoughts, ISSN: 2320-2882, Volume 8 Issue 6, Page no: 3098 – 3102, 2020.

[14]. Sourabh Salokhe, Supriya Patil, Savita Patil, Tushar Salavi, Snehal Mali, Rahul Nejkar, "College Management System", International Research Journal Of Engineering and Technology, ISSN: 2395- 0056, Volume: 08, Issue: 07, Pg no : 2088 – 2097, 2021

[15]. Farheen Taqi Rizvi, Naushin A.Khan, Saurabh Upadhyay, Sonali Suryawanshi, Shibburaj Pappu, " Placement Management System", Journal of Emerging Technologies and Innovative Research, ISSN: 2349- 5162, Volume:08, Issue: 04, pg no: 1-6,2021

[16]. M. IIanchezhian, Ranjith Kumar R, "Placement Activity System", International Journal of Engineering Research and Technology", ISSN: 2278- 0181, Volume: 04, Issue: 19, 2016

[17] . Akshay Venugopal, Ashik Paily, Balaji V Shenoi, Bibin T Varghese, Sreenimol K R, "ONLINE PLACEMENT AND RECRUITMENT SYSTEM"," International Journal of Advances in Computer Science and Technology" ISSN: 2320 - 2602, Volume: 09, Page no: 25 – 29, 2020