Student Analysis System for Training and Placement

Navaneeth Kumar B, Vamsi Kandula, Praneeth Ambiti, K Hema, Kishore Buddha

Abstract: According to the survey done by aspiring minds on Annual Employability in 2019, only 2.5% of students have the technical skills that are required for industry, and 80% of engineers do not possess the skills that are necessary for the industry. Engineering employability rates can be improved when we have student analysis data to understand their performance in every aspect. So, to decrease the unemployability rate, we are proposing a Student Analysis System that gives students a performance report for analyzing student strengths and weaknesses in various company's recruitment exams. The system is entirely automated by using various techniques to minimize the work of the Training and Placement Department. The information about the student, which is available in the portal, can be shared with the various recruiters based on the eligibility criteria, skills, and requirements of the company. The front-end of the platform is developed by using HTML, CSS, JavaScript, backend of the platform by using PHP. And along with the Xamp web server.

Keywords: Analysis Report, Employability, PHP, Recruitment, Xamp.

I. INTRODUCTION

Internet and world wide web have revolutionized the technology where a vast amount of data produced should be analyzed and make decisions based on the situations to succeed and grow with the technology. With the growth of technology, everything is becoming automated through computer written algorithms. One such computer written algorithm which automates the educational institutions training and placement department is Student Analysis System.

The Student Analysis System is a web portal 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 student performance in the exams like 10th standard, Intermediate, Graduation, Cocubes, Amcat, CRT (Campus Recruitment Test), and other recruitment exams conducted by various companies. The admin has access to update the student details into the database.

The student portal contains his/her details of all the exams that he /she has written till date in his career, which gives his/her strength and weakness. He/she can update their CV into the portal, which contains personal details, and same thing can be shared by the admin to the various recruitment companies for hiring the students as per their requirements and based on the skills of the students.

Finally, the recruiter portal which contains the list of all the students from the college. Based on his requirements, criteria for recruiting the students from college and student's skills the recruiter can shortlist the students for hiring into their organization.

II. LITERATURE SURVEY

An interactive training and placement system which automates the training and placement activities that provides the many opportunities to raise the selection ratio. This system intimates about job openings for the students in various fields, apply to those postings and invite various organizations for hiring the students from the college and track the progress of the students. It can generate the list of short-listed students as per HR requirements and their different criteria's. [1] A Final Year Management System that provides the complete details of the students in the college by which we can overcome the many problems like managing the records of thousands of students and searching the list of eligibility student's from those thousands of records for recruitment purpose, list companies visited to the college for hiring the students. [2]

To Automate the registration process and generate the list of eligible students for recruitment a College Talent Placement System is developed. The students who are eligible can register through the portal and update their personal details including their resume which can be accessed and seen by the placement director. The Placement Officer fixes the schedule based on the activities in the institution. Finally, the student will be able to see the details of examination and status of recruitment. [3] A modular architecture-based system which provides multiple functionalities for performing the placement related activities. In this modular based system, we can add or remove modules in the future based on the specifications required for TPO. [4]

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Analyzing the student strength and weakness to make decisions efficiently for training and placement activities of the educational institute based on the query specific reports of the students for various companies' recruitment. To analyze we will be using different data mining algorithms to make effective decisions based on understandings of the data. [5] A web-based Placement management system which facilitates students for one-time registration that reduces the paper work. The placement details regarding the students is managed by the placement officer as an application that can be accessed by the organization authorities with proper login details of the student. [6]

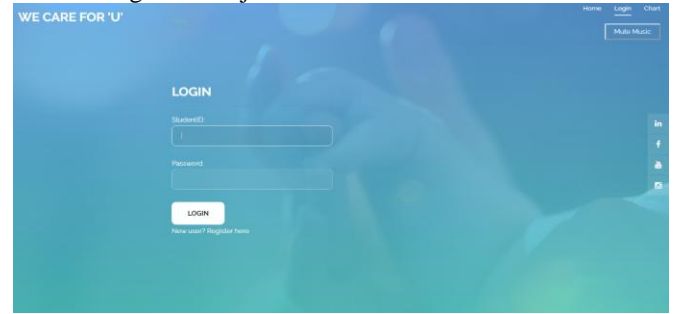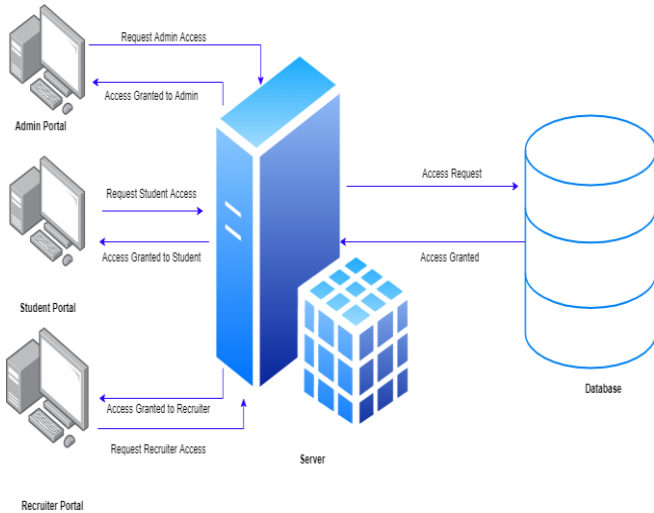### III. PROPOSED SYSTEM ARCHITECTURE

Fig 1: Different persons accessing the data

Even thought there are three different types of modules (student, admin, recruiter) are provided the particular module access is automatically given based on the type user login (i.e. If the user is having the admin privilege then admin will be opened, similarly to the other modules)

IV. IMPLEMENTATION

Student Analysis System for training and placement contains Three modules: Student Module, Admin Module and Recruiter Module. Each and every module working is explained. The home page of the student analysis system is shown in diagram.
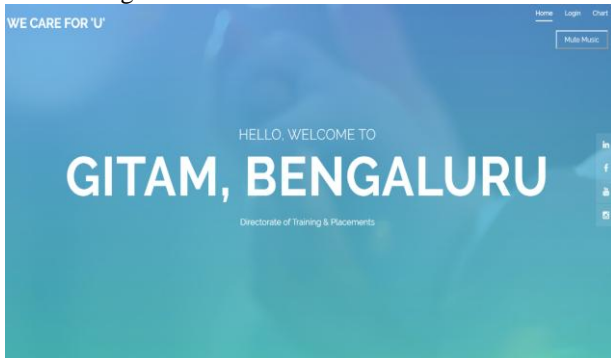

Fig 2: Homepage of Student Analysis System

a) Student Module:

In the student module, when the student enters his/her university registered ID in the login page along with password. After successful validation, student will be directed to Student Dashboard. Student dashboard contains several
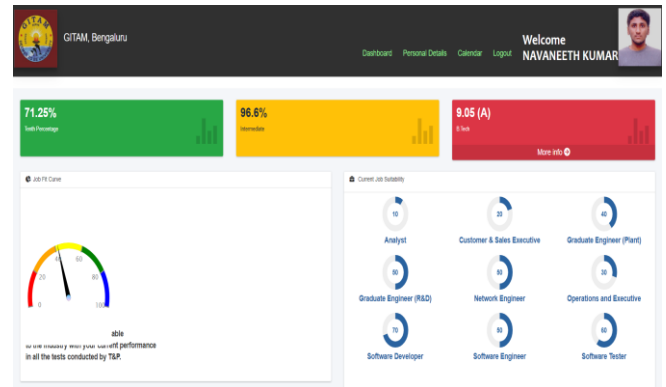
details like SSC marks, Intermediate marks, Graduation marks along with the job role which he is suitable.

Fig 3: Login Page

Fig 4: Student Dashboard

Along with that the dashboard also contains details of several recruitment exams analysis like Cocubes, Amcat, CRT (Campus Recruitment Test), Score, attendance report, placement analysis and individual drive tracking.
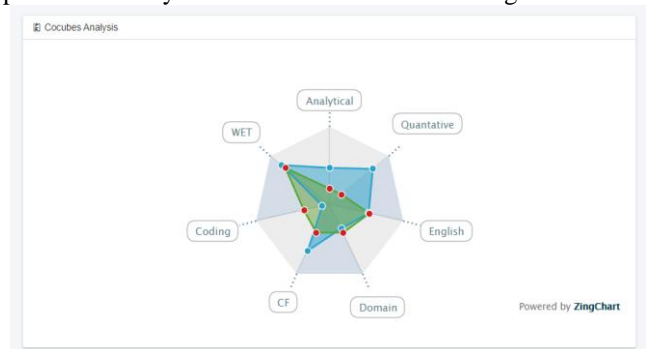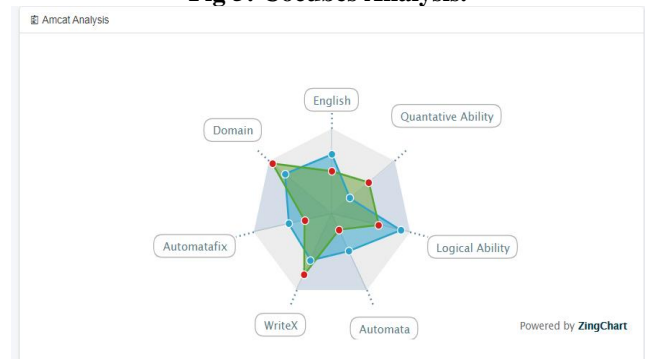

Fig 5: Cocubes Analysis.
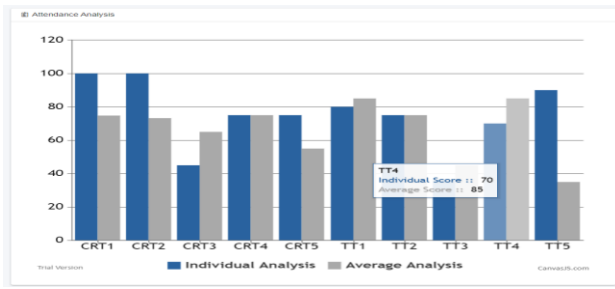

Fig 6: Amcat Analysis Chart in Different Domains.

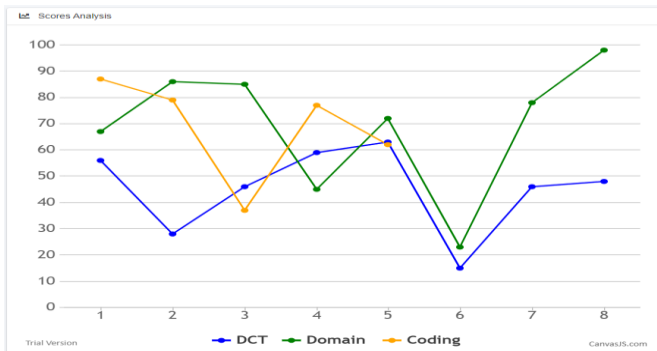**Fig 7: Attendance Analysis Graph in Various Tests Conducted by T&P**

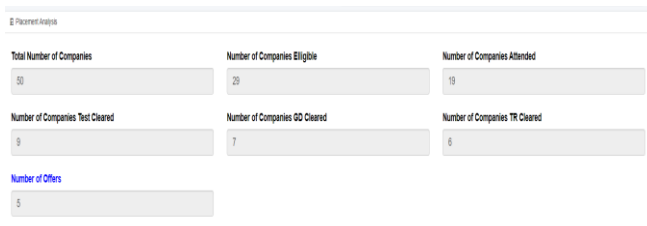**Fig 8: Score Analysis of Technical Exams Conducted**

Fig 9: Placement Analysis report of Companies Visited to Campus

Fig 10: Individual Drive Tracks of Students Placed in Various Companies

Students can be able to see all these details and get to know about his performance in various exams conducted by training and placement department in the organization.

b) Admin Module

The directorates of training and placement department of the organization have the right to access, modify the student details. The admin portal dashboard contains list of eligible students in the campus. Dashboard also contains list of placed, not-placed, Number of drives conducted inside the campus, Highest package and least package in the campus, Number of offers given to the students.
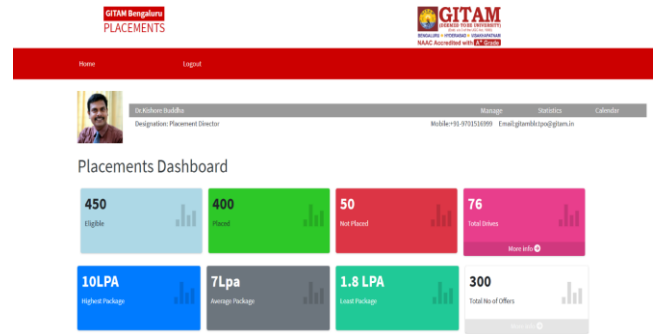

Fig 11: Admin Dashboard with Various Details

Fig 12: Year Wise Placement Results in Graphical Representation

The placement officer can also search the individual student details by entering his registration ID in the search bar provided in the manage tab of the dashboard and can update the student details. The analysis of the student can also see by the directorate to evaluate the student in different aspects.
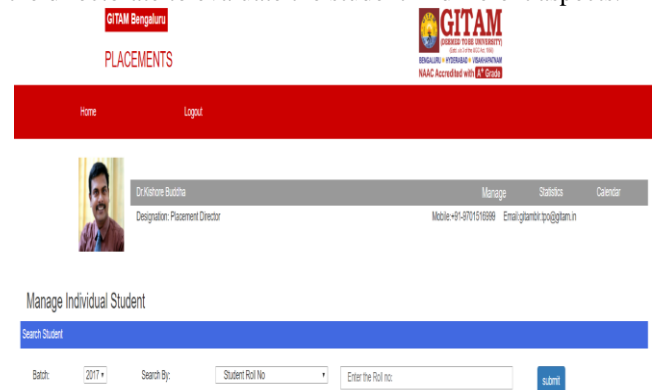

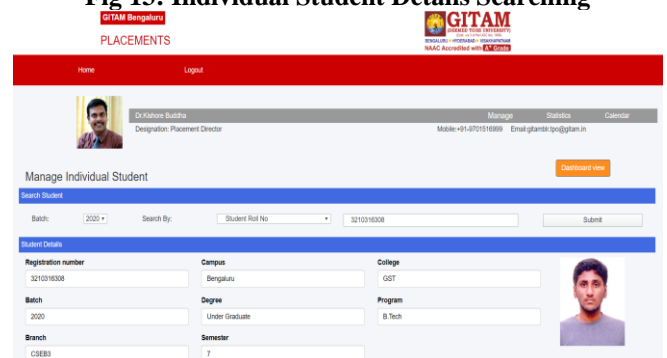**Fig 13: Individual Student Details Searching**

Fig 14: Student Details displayed in Admin Portal

Based on the analysis of the student the training and placement officer will be taking decisions.

c) Recruiter Module

The various companies who are recruiting students can shortlist students based on their requirements. This portal allows to sort out the students with different criteria.
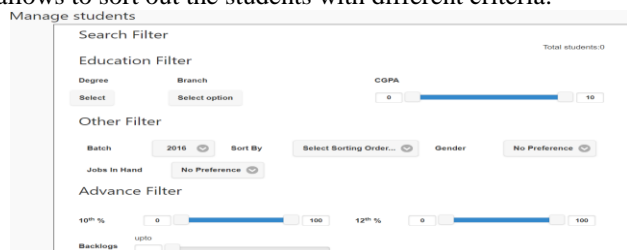

Fig 15: Recruiter Filtering the Students Based on his Requirement

V. RESULT

This System will be useful for the students by which they can get to know their strengths and weaknesses. By knowing it they can improve themselves by preparing in the area where they are weak. The student will get their feedback from the various exams in the portal which help them in getting job.

VI. CONCLUSION

The main objective of this student analysis system is to analyze the student and to conclude to which role in IT industry he/she is suitable. So, that the directorate of training and placement can take necessary decisions based on the data they are having. The student can be given counselled and trained on various technology which is suitable/required by the industry people. In future we can add many ML and DL techniques to analyze the data and guide the student with the output predicted from the analyzed data, so that this software will act as a virtual councilor to guide the student and make them to achieve their dreams.

REFERENCES

1. Nilesh Bhad, Pooja Kamble, Sunita Saini, Prof. Yogesh Throat, "Review on An Interactive Training and Placement System", volume 3, Issue 11, November-2016.
2. Charlotte Katwa, Kashmira Sanjana, Pooja Parmar, "Final Year Placement Management System", IJSTA.
3. Sumit bhave, Dipak Suryawanshi, Rakesh Murkunte, Prof. Gangotri Nathaney, "An Enactment of college Talent Placement System", volume 2, issue 5, April-2017.
4. Mr. Hitesh K. Kasture, Mr. Sumit S. Saraiyya, Mr. Abhishek S. Malviya, Prof.Preeti V. Bhagat, " Training and Placement Web Portal", Volume 2,issue 3.
5. Siddhi Parekh, Ankit Parekh, Ameya Nadkarni, Riya Mehta," Results and Placement Analysis and Prediction using Data mining and Dashboard", volume 137-no.13, march 2016.
6. Anjali, Jeyalakshmi.PR, Anbubala.R, Srt Mathura devi.G, Rajini.V, "Web Based Placement Management System", vol.7(?2),2016.

AUTHORS PROFILE

Navaneeth Kumar Buddi, currently pursuing B. Tech Final year in Computer Science and Engineering in GITAM School of Technology Bengaluru Campus. He is a Tech. Enthusiastic and done certifications in booming Technologies like Big Data (Dell EMC), Robotic Process Automation (Automation Anywhere) and many other. He is the winner of Neural Hack, season-3 in Full stack development stream conducted by virtusa. He has developed many bot's using Automation Anywhere enterprise that has automated and reduces the workload for GITAM Bangalore Placement Cell and also done mini project on Smart Irrigation System based on IoT in GITAM University

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