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Alumni Tracking System

Mahesh Patil[1], Shivani Patil[2], Prajakta Shinde[3], Snehal Nikam[4], Prof. U A Patil[5]
[#]*Computer Science & Engineering, Shivaji University Kolhapur*

Abstract: This paper proposes a alumni tracking system for alumni management which institute dependent and concentrate on alumni updates. The whole system is going to work on C4.5 algorithm. Which based on decision making statement with the help of respective algorithm we can easily sort the alumni. That feature will help us to get sorting of alumni according to admins requirement.
This project is primarily aimed at replacing the current tracking system for college graduates and giving alumni data on college skills.
It aims to build a web portal that will help college to monitor alumni updates. The main aim of the system is to overcome the drawbacks in existing traditional system and validate the gap between the knowledge and skills possess by the graduates and the required qualifications needed by industries.
Keywords: Data Mining, Database, Web Designing

I. IINTRODUCTION

In the current case, the Alumni database is maintained by a static college. For this reason, real-time alumni details are not available on any central platform. So there is a need for an app that can keep all college graduates in real time. The preferred application will be a web application where college graduates can update their current job status. Alumni details will be stored in the server database which will be available via the web portal to the college-administered faculty. Institutions can search alumni by their name, batch, and issue a year, Permanent Registration Number (PRN).
The proposed program will have great potential for the entire student by staying in touch with the alumni.Alumni can easily communicate with the institution through this program.

II. RELEVANCE

1) *Gathering Alumni Information:* We collect information from college authorities. We use this information to compare when alumni sign up for the alumni tracking system One of the key ways to identify what needs to be met is to create a database for its alumni. This includes collecting data from program alumni and finding out what their key job areas are in the labor market or which are their primary research fields in the school. All of this information will be stored in a database or server and will be visible to the supervisor or professor in charge.Page Layout

III.LITERATURE REVIEW

As per mentioned project title Alumni Tracking System is the idea introduced by Government of Goa which is we are going to execute with the reference of Smart India Hackthon[1].
Centralized Alumni Management System (CAMS) - A Prototype Proposal Aritra Mukherjee1, Adrita Roy2, Manish Kumar Lath3, Arnab Ghosal4, Diganta Sengupta5-This paper proposes a prototype for centralized alumni management system void of institution dependence. The proposed system has a mentoring feature through which existing students can seek as a mentor those individuals who have graduated from that particular institution[3].
Alumni Tracking System by MihirJayavant, Shashank Kawle, PritiKhergamkar, ShitalGurale, Prof. Reena Somani (Department of Information Technology, Atharva College of Engineering, (Malad), Mumbai, India) Corresponding Author: MihirJayavant-Respective paper is get used for the clearing the concept of problem statement and abstract[4].

IV.OBJECTIVE

A. To keep persistent records of all the college graduates.
B. To develop, encourage and fellowship among the students, teachers, senior staff of the college.
C. To allow colleges to verify and authenticate their registered alumni.
D. To validate the gap between the knowledge and skills possess by the graduates and the required qualifications needed by industries.

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V. PRAPOSED WORK

The D Y Patil Technical Campus, Talsande has 5 Engineering department and 1 MBA department under it. Altogether, more than 300 students that pass out from them every year either choose to option for further studies, work or have their own startups. Existing mechanism for the colleges to keep a track of the students passing out having some drawbacks. Hence, the problem is to develop a web based application for colleges to keep a track of the Alumni. The said application should have the following features:-

1) Allow the alumni members to register themselves
2) Allow colleges to verify and certify the authenticity of registered alumni
3) Provision for alumni members to update their details
4) Allow the colleges to search details based on criteria such as year, subject, etc.
5) Send messages and emails to alumni members
6) Security features with login for every user.

A. Proposed Architecture

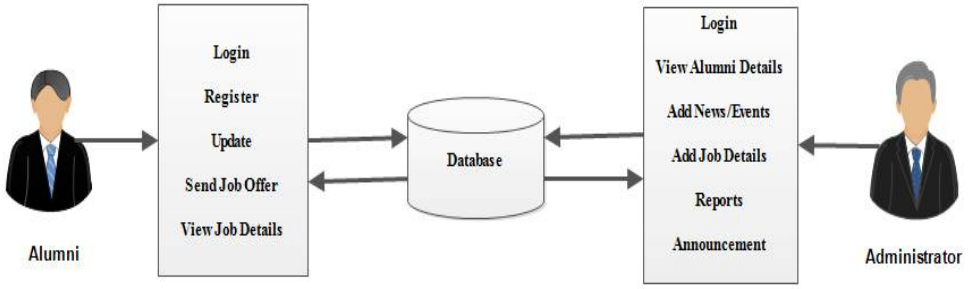


Fig.1-Overall Architecture of system

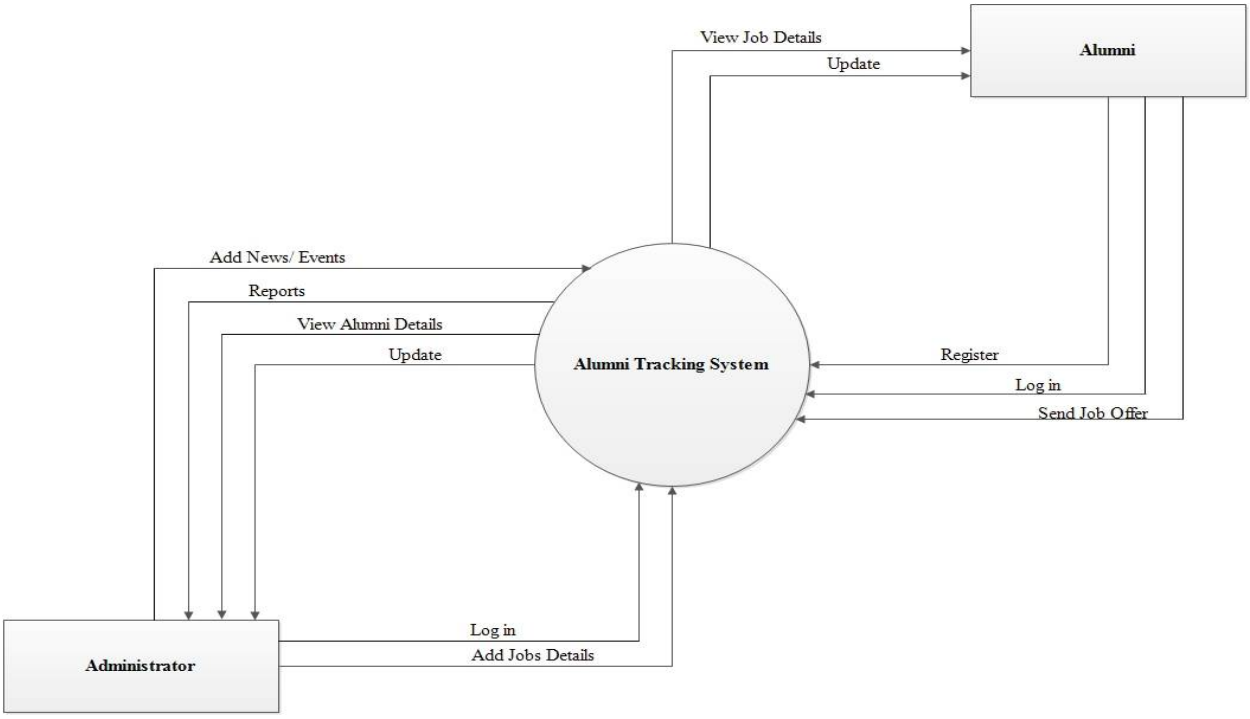


Fig.2-DFD level 0

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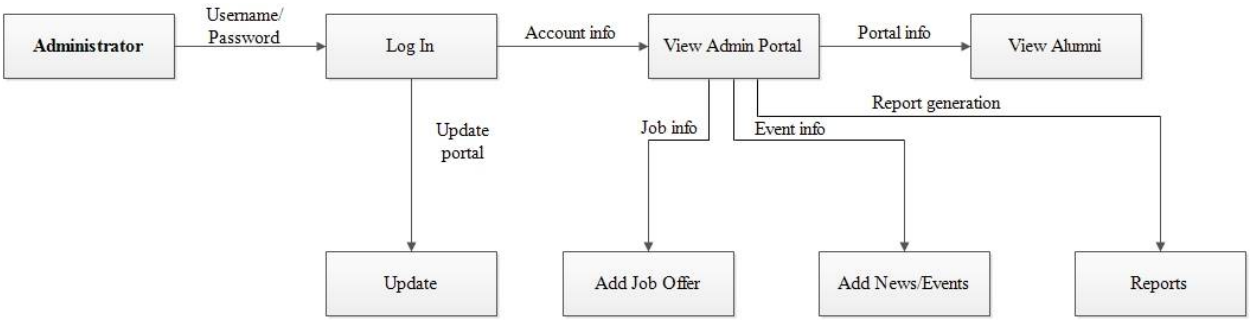


Fig.3-DFD level 1 for Administrator

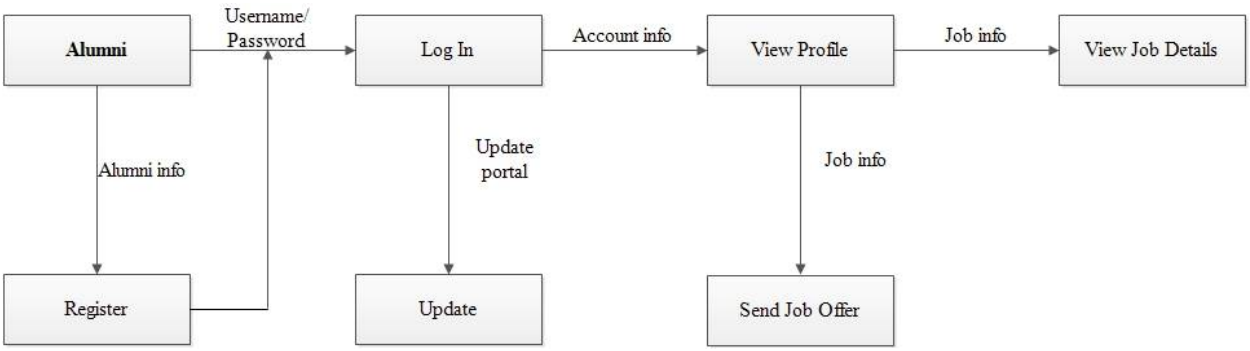


Fig.4-DFD level 1 for Alumni

B. Implementation Steps

1) Index Page: Index page mainly contain two field Admin Login and Alumni Login. Respective field will have the hyperlink of login pages of field itself.

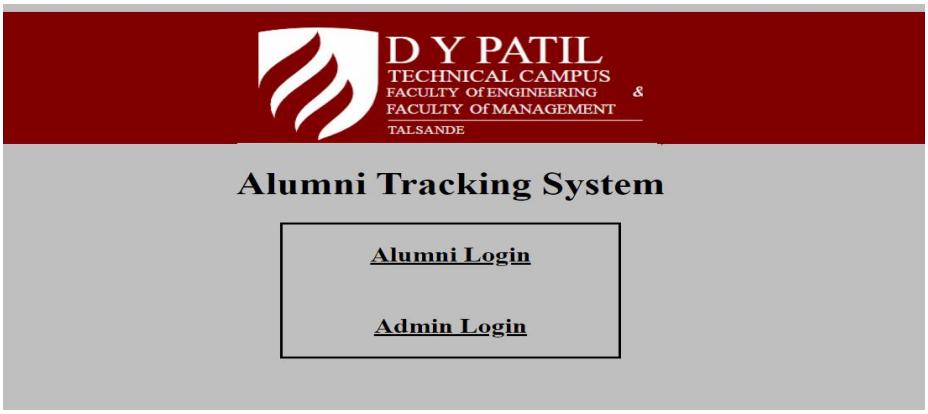


Fig 5 - Index Page

As shown in the above page view we can see there are 2 options to get inside the web port that are as an alumni or as an admin so by using the index page , we have to hyperlinks to different php pages of the login.

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2) *Login Page:* As per choice login page of admin and alumni will get open.Login page of admin required two fields i.e User Id and Password. Alumni login page contains two fields login and registration.

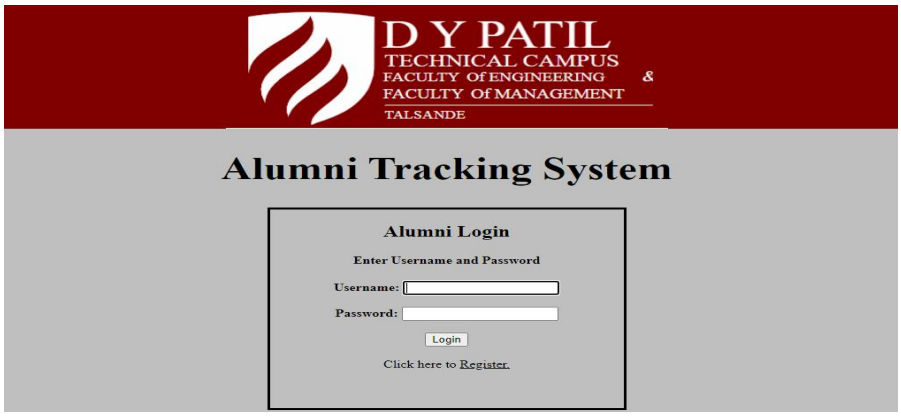


Fig 6 - Login Page for Alumni

3) *Registration Page:* Registration page is get opened when user will choose the register option on the login page of alumni. Registration page will contain all the personal details of the user and by using them new login will be created. That login is helpful for get into the system

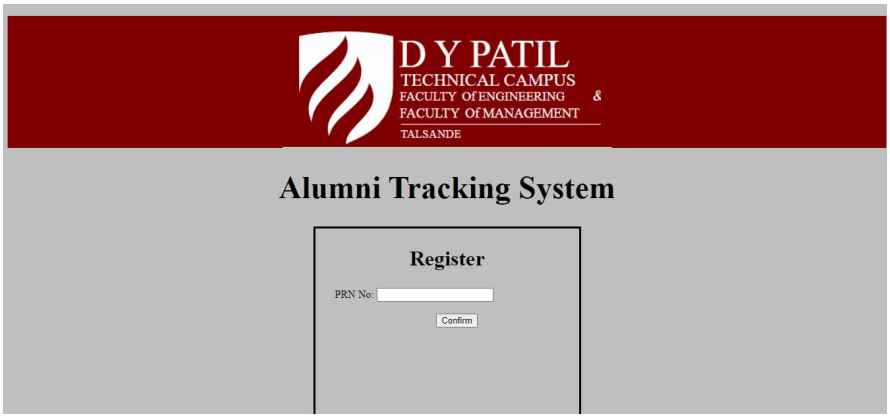


Fig 7 - Registration Page

4) *Home Page:* Home page for the admin and alumni is going to be different. Home page of Admin will contain controlling part of the system like sending the notice, adding new admin and many more option. Home page of alumni will contain fields like personal profile, new and current working position of alumni.

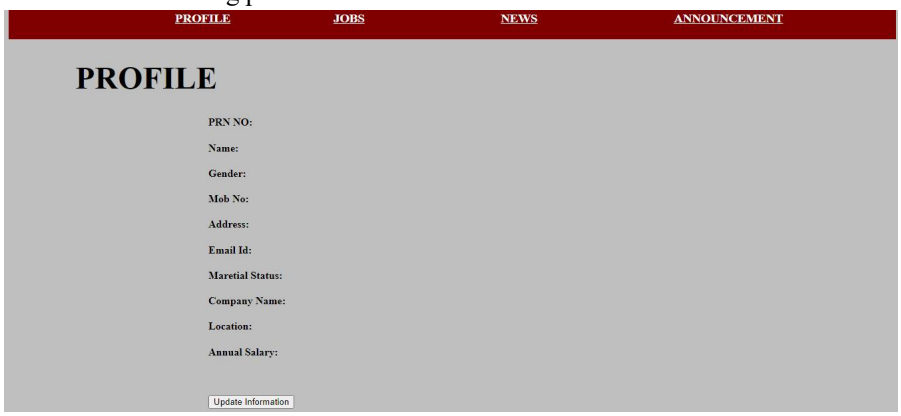
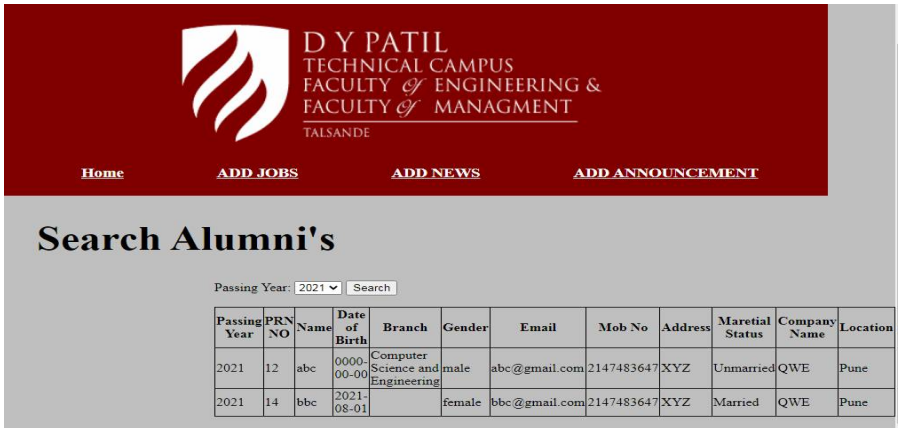


Fig 8 - Profile of alumni

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Passing Year	PRN NO	Name	Date of Birth	Branch	Gender	Email	Mob No	Address	Maretial Status	Company Name	Location
2021	12	abc	0000-00-00	Computer Science and Engineering	male	abc@gmail.com	2147483647	XYZ	Unmarried	QWE	Pune
2021	14	bbc	2021-08-01		female	bbc@gmail.com	2147483647	XYZ	Married	QWE	Pune

Fig 9 - sorted data

Above all the content and the fig are showing what is actual implementation of the project we have done. For the real experience of the web port you have to check it and take the reviews from the users of the portal i.e. nothing but the alumni of the college and the admin. We can also add some features to the present work so that are get introduced inside the scope as future scope of the project.

C. Scope

This system can be used to keep persistent records of all the college graduates. Designed database contains all the information about alumni so that, we can validate the gap between the fresh candidates, alumni and the required qualifications needed by industries.The proposed system would enable users to register as well as generate information for the purpose of tracking all the updates about the alumni.In future scope we can also add some features like alumni can get or send requests when multiple organizations get added into the portal , alumni profile modification, messaging to each other , post the pictures ,share the information to each other.

D. Methodology

1) *C4.5 Algorithm:* The C4.5 algorithm is used in Data Mining as a Decision Tree Classifier which can be employed to generate a decision, based on a certain sample of data. The more you know about the subject, the more new information you can find on it. More summary: If you know that an event is very likely, it is not surprising when it happens, that is, to give you a little detail that it actually happened. From the above statement we can establish that the amount of information obtained is equal to the probability of an event occurring. We can also say that as Entropy increases the profitability of knowledge decreases. This is because Entropy means an event is possible.
2) *Pruning:* The Decision Tree in our original example is quite simple, but it is not so when the data set is huge and there are more variables to take into consideration. This is where Pruning is required. Pruning means the removal of those branches from our decision-making tree that we feel are not contributing much to our decision-making process.
3) *Pseudo Code*

a) Check for the above base cases.
b) For each attribute a, find the normalized information gain ratio from splitting on a.
c) Let a_best be the most profitable standard for standard information.
d) Create a decision node that splits on a_best.
e) Re-enter the list found in cracks at best, and enter those nodes as child nodes.

VI. CONCLUSION

According to all above information we can easily track the alumni to reduce the gap between freshers and alumni,that can help college system or the organization to know more about industrial knowledge. This is just a simple interaction web port but we can add some more features into it like sending request to add friends, post the pictures, get connection with other alumni present in the system. There are many more things to do in future.

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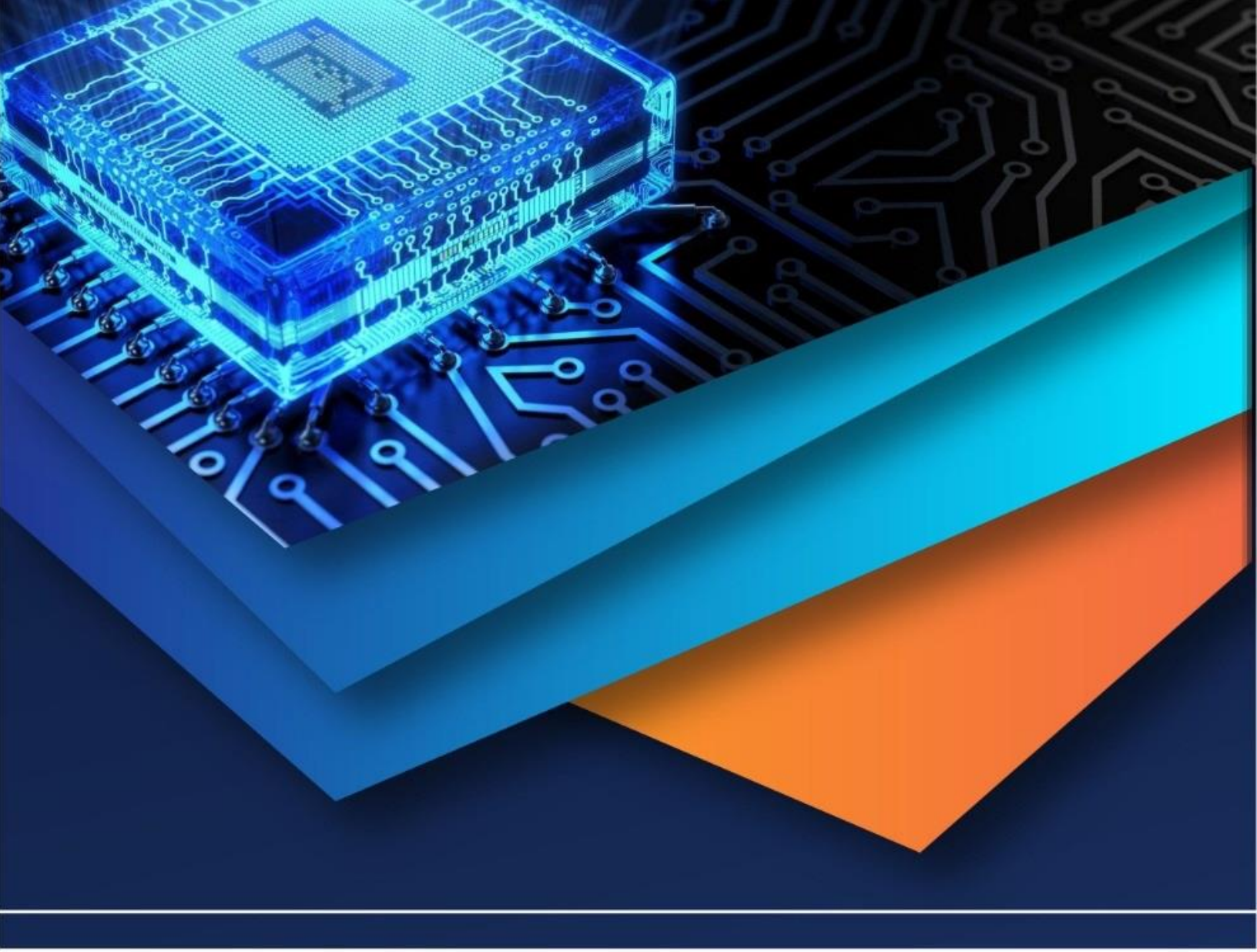
VII. ACKNOWLEDGMENT

For a strong tree a strong root is a prime requirement. Similarly for any project to be a great success a good guidance is required. We would like to express my deep gratitude towards my guide Prof. U. A. Patil for his valuable guidance and constant motivation.
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[4] Alumni Tracking System. MihirJayavant, Shashank Kawle, PritiKhergamkar, ShitalGurale, Prof. Reena Somani (Department of Information Technology, Atharva College of Engineering, (Malad), Mumbai, India) Corresponding Author: MihirJayavant.

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