

LogiPlacement

Submitted in partial fulfillment of the requirements of the degree of
Bachelor of Computer Engineering

by

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CERTIFICATE

This is to certify that, the project entitled “**LogiPlacement**” is the bonafide work of “**Mr. Kishan Ukani**” (34), “**Mr. Krishi Devani**” (68) , “**Mr. Tanish Kini**” (72) and “**Mr. Pardeshi Jaiswar**” (73) submitted to the University of Mumbai in partial fulfillment of the requirements for the award of the degree of “**Undergraduate**” in “**Computer Engineering**”.

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Abstract

In an era of dynamic career choices and a constantly evolving job market, "LogiPlacement" serves as your guiding light towards a prosperous professional future. Our comprehensive website integrates three powerful modules to assist you in making informed career decisions, crafting compelling resumes, and charting educational roadmaps for success. Harnessing the predictive prowess of the Random Forest algorithm, "LogiPlacement" empowers you to anticipate your career prospects based on your qualifications and preferences. Furthermore, our "Resume Showcase" feature allows you to upload your resume, receiving a collection of sample resumes tailored to your chosen career path, ensuring that your applications stand out. Lastly, "Road Maps to Learn Various Courses" provides personalized learning paths, curated to your aspirations, helping you gain the skills and knowledge you need to excel in your chosen field. "LogiPlacement" is your invaluable companion on the journey to career success, offering a holistic approach to personal and professional development. Start charting your course today and set sail towards a brighter future.

Keywords: *LogiPlacement, career decisions, resumes, educational roadmaps, predictive algorithm, qualifications, preferences, Resume Showcase, sample resumes, Road Maps, personalized learning paths, professional development, career success.*

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List of abbreviations

1. UI – User Interface
2. RAM – Random Access Memory
3. IDE – Integrated Development Environment
4. DFD – Data Flow Diagram
5. UML – Unified Modelling Language

Declaration

I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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Chapter 1

Introduction

In today's fast-paced world, one of the most pressing challenges individuals face is finding the right career path. The ever-changing job market, coupled with the multitude of career choices available, can often leave us feeling uncertain and overwhelmed. Many have struggled with making informed career decisions, crafting compelling resumes, and aligning their learning experiences with their professional goals. This real-life problem has led to the development of "LogiPlacement," a practical solution designed to simplify the complexities of career planning and progression. In this project, we aim to address this common issue and provide a valuable tool for students and professionals alike, helping them navigate their career journeys with confidence and clarity.

1.1 Project Idea

In the fast-paced and ever-evolving landscape of the modern job market, individuals continuously grapple with the challenge of choosing the right career path, crafting compelling resumes, and aligning their educational pursuits with their professional ambitions. The multitude of career choices, coupled with the constant evolution of industries and job roles, often leaves students and professionals in a state of uncertainty. The development of "LogiPlacement" is a response to this real-life problem. This innovative project serves as a comprehensive solution to simplify the complexities of career planning and progression in today's dynamic world. Through three pivotal modules, it empowers users to make informed career decisions, enhance their resumes for maximum impact, and set clear learning objectives tailored to their chosen fields.

At the heart of "LogiPlacement" is the "Predictive Career Guidance" module, which employs a Random Forest algorithm to analyze user-specific qualifications, skills, and career preferences. This algorithm offers personalized insights into potential career options based on data-driven predictions. Additionally, the "Resume Enhancement" feature equips users with the tools to upload their resumes and receive curated sample resumes aligned with their chosen career paths, thus helping them stand out in the competitive job market. The "Tailored Learning Paths"

module provides users with personalized roadmaps for various courses and certifications, designed to align with their career aspirations and facilitate the acquisition of the skills and knowledge essential for excelling in their chosen fields. "LogiPlacement" is not merely a project; it's a user-centric, practical, and effective solution, dedicated to simplifying the complex processes associated with career planning and growth in the modern job market. It aims to empower individuals to confidently navigate their professional journeys, providing valuable guidance and clarity in an ever-evolving world.

Chapter 2

Review of Literature

A literature survey was carried out to find various papers published journals related to Placement Prediction System to get the best algorithm for the same.

2.1 Existing System

In the traditional approach, students often seek career advice from conventional sources, while career planning processes are mostly manual. However, these methods can be limited in their ability to provide accurate and data-driven solutions. The "LogiPlacement" project is designed to transcend these traditional practices and embrace a modern, data-driven approach, leveraging predictive algorithms to enhance the accuracy and informativeness of career decisions for students.

2.2 Literature Survey

We have examined various research papers in the domain of Placement Prediction System for our project to delve deeper into the details of the various researches conducted in the field of Placement Prediction System. Table 2.1 shows a survey of the research paper done for the project.

Table 2.1 – Literature Survey table

Sr. No.	Paper Name	Year of Publication	Author	Publication	Proposed Work	Research Gap
1.	Placement Prediction and Analysis using Machine	2022	Suraksha V Kandi, Naresh Patel K M, Goutham N M,	IJERT	This system aims to bridge the gap between academic and industry	The limited exploration of interpretable models that provide insights into

	Learning		Inzamam K A, Vineet Saran V R		standards, emphasizing problem-solving, teamwork, and integrity for students to achieve better positions.	the factors influencing placement outcomes, which could enhance transparency and trust in the decision-making process.
2	Student Placement Prediction System using Machine Learning	2021	Varsha K. Harihar,D. G. Bhalke	SAMRID DHI Volume 12	To predict if students will get good jobs based on their grades and behavior, to help students do better and find good jobs.	The paper doesn't explain which factors are most important for predicting job placements, ignores fairness and bias issues, doesn't show how teachers can use the system, and doesn't check if it really helps students get better jobs.

3	Students Placement Prediction using machine learning algorithm	2022	Dr. Kajal Rai	South Asia Journal of Multidisciplinary Studies	Machine learning system to boost campus placements, offering students better career starts and institutions an improved reputation.	The lack of information about the difficulties faced or how to enhance the machine learning-based placement prediction system.
4	Student Placement Prediction Using Machine Learning	2023	P. Archana, Dhathirika Pravallika, Pandila Sindhu Priya, Sarikonda Sushmitha, Sripada, Amitha	Journal of Survey in Fisheries Sciences	To predict student placements by analyzing their academic performance, skills, and internship experiences, benefiting both educational institutions and students	It Doesn't cover data quality or ethical concerns, and neglects practical implementation and long-term success, leaving critical research gaps.

5	Automatic Student Analysis and Placement Prediction using Advanced Machine Learning Algorithms	2019	Kachi Anvesh, B. Satya Prasad, V. Venkata Sai Rama Laxman, B. Satya Narayana	IJITEE	Make a system that helps recruiters find the right job for students by looking at many things like what they know and their skills, instead of just a few things like tests.	The evaluation methods are limited, and there's a need for more complete and personalized approaches to help students find the right job roles..
6	Campus Placement Prediction system using bagging approach	2021	Deva Rajashekhar,K otha Amitabh, Kopanathi Sai Kumar, Singarapu Sahithi	JETIR	The project uses machine learning to predict whether students will get placed based on their academic records, helping colleges and students improve placements.	The future improvements of the project are to focus on adding a few extra parameters to predict more efficient placement status. They can use extra optimized algorithms for better predictions

7	Students Placement Prediction System	2022	Pratiksha Khamkar, Rutuja Lagad, Priyanka Shinde, Shubhangi Londhe, Prof. S.S Bhosle	IJRASET	machine learning model to predict student placement likelihood using CGPA, logical, and technical skills, while also analyzing placement success by academic streams to inform future admission trends.	The problems with the placement prediction system are that it doesn't consider things like a student's hobbies and interests and it relies too much on old information.
8	Students Placement Prediction using Machine Learning	2020	Mr. C K Srinivas, Nikhil S Yadav, Pushkar A S, R Somashekhar, Sundeep K R	IJRASET	The project aims to use Logistic Regression on historical student data, including grades, arrears, CGPA, and domain	The model doesn't consider personal skills and real-time job market changes, potentially missing key factors affecting

					knowledge, to predict if current students will be placed, helping colleges improve their placement outcomes based on past performance	student placement outcomes.
9	Campus Placement Prediction Using Machine Learning	2023	Prof. S.S. Kashid, Ashish Badgujar, Vishal Khairnar, Anurag Sagane, Nishant Ahire	IRJMETS	<p>It focuses on the outcomes based on their academic performance in core subjects, offering a means to enhance students' skill development and the college's placement records and reputation.</p>	<p>The model doesn't consider important things like personal skills and activities outside of academics, and it doesn't adapt to changes in the job market, which could affect its accuracy.</p>

10	Placement Prediction	2022	Mayur Valte, Shivani Gosavi, Tejaswini Sarode, Ajay Kate, Prof. Sagar Dhanake	IJARSCT	The project aims to develop a user-friendly machine learning system for streamlined college placement prediction, benefiting students, staff, and the institution's reputation.	The system's potential lack of consideration for non-academic factors and real-time job market dynamics, which can significantly impact student placement outcomes.
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Chapter 3

Proposed System

This chapter includes a brief description of the proposed system and explores the different modules involved along with the various models through which this system is understood and represented.

3.1 Proposed System Modules

LogiPlacement tends to integrate various modules, The modules are:

1. Placement Prediction
2. Resume
3. RoadMaps

A. Placement Prediction User first sign's up if he/she is new user else log's in. The database used for storing login/signup details is Sql lite and Firebase, Then the user can check the chances of him/her of getting placed using the placement prediction section of the website ,the user entre all the necessary fields and using the random forest algorithm the results are predicted along with the message where is the need of improvement.

B. Resume Once the user has successfully logged in the resume section can be used , the user can help others by uploading his/her resume so that others can get inspire from their resume and make their own user can use template resume section to view and download resumes of others, he will be able to check the template resumes available of various students/people already placed in various companies also user can perform resume analysis to get to know what he can add in his resume.

C. RoadMaps/Training The user on login can use this section if the user wants to learn a specific technology or improve a particular skill, this section will contain all the roadmaps and complete path to learn several technologies from basic to advanced levels.

Login

Signup

3.1.1 Analysis/Framework/ Algorithm

The Random Forest algorithm is a supervised learning method. In supervised learning, the algorithm is provided with a labeled dataset, meaning that it's given input data along with the corresponding correct output or target. The algorithm's task is to learn a mapping from input to output based on the provided examples.

In the case of Random Forest, it is typically used for both classification and regression tasks:

- **Classification:** In classification tasks, the algorithm aims to assign input data to predefined categories or classes. Each decision tree within the Random Forest ensemble makes a prediction for the class of the input data point, and the final prediction is often determined by a majority vote among the individual trees.
- **Regression:** In regression tasks, Random Forest predicts a numerical value as the output based on input data. The final prediction is often the average of the predictions made by individual decision trees in the ensemble.

Supervised learning is a common approach in machine learning, where the algorithm learns from historical data to make predictions on new, unseen data.

Random Forest Algorithm's widespread popularity stems from its user-friendly nature and adaptability, enabling it to tackle both classification and regression problems effectively. The algorithm's strength lies in its ability to handle complex datasets and mitigate overfitting, making it a valuable tool for various predictive tasks in machine learning.

One of the most important features of the Random Forest Algorithm is that it can handle the data set containing *continuous variables*, as in the case of regression, and *categorical variables*, as in the case of classification. It performs better for classification and regression tasks. In this tutorial, we will understand the working of random forest and implement random forest on a classification tasks

Working of Random Forest Algorithm

Before understanding the working of the random forest algorithm in machine learning, we must look into the ensemble learning technique. *Ensemble* simply means combining multiple models. Thus a collection of models is used to make predictions rather than an individual

model.

Ensemble uses two types of methods:

Bagging

Bagging (or Bootstrap aggregating) is a type of ensemble learning in which multiple base models are trained independently and in parallel on different subsets of the training data. Each subset is generated using bootstrap sampling, in which data points are picked at random with replacement. In the case of the bagging classifier, the final prediction is made by aggregating the predictions of the all-base model using majority voting. In the models of regression, the final prediction is made by averaging the predictions of the all-base model, and that is known as bagging regression. It creates a different training subset from sample training data with replacement & the final output is based on majority voting. For example, Random Forest.

Boosting:

It combines weak learners into strong learners by creating sequential models such that the final model has the highest accuracy. For example, ADA BOOST, XG BOOST.

As mentioned earlier, Random forest works on the Bagging principle. Now let's dive in and understand bagging in detail.

Boosting is one of the techniques that use the concept of ensemble learning. A boosting algorithm combines multiple simple models (also known as weak learners or base estimators) to generate the final output. It is done by building a model by using weak models in series.

There are several boosting algorithms; AdaBoost was the first really successful boosting algorithm that was developed for the purpose of binary classification. AdaBoost is an abbreviation for Adaptive Boosting and is a prevalent boosting technique that combines multiple “weak classifiers” into a single “strong classifier.” There are Other Boosting techniques.

Steps Involved in Random Forest Algorithm

- **Step 1:** In the Random forest model, a subset of data points and a subset of features is selected for constructing each decision tree. Simply put, n random records and m features are taken from the data set having k number of records.
- **Step 2:** Individual decision trees are constructed for each sample.
- **Step 3:** Each decision tree will generate an output.
- **Step 4:** Final output is considered based on ***Majority Voting or Averaging*** for regression.

3.2 System Requirements

This section will provide the user the required specification of the hardware and software components on which the proposed system is to be implemented.

3.2.1 Hardware Requirements

This subsection will provide the minimum requirements that must be fulfilled by the hardware components. The hardware requirements are as follows: -

- A smart phone with
 - 1) Camera – minimum 5 megapixels
 - 2) Storage – minimum 200 megabytes free
 - 3) RAM – minimum 2 gigabytes
 - 4) Processor – minimum dual core
- A desktop with
 - 1) RAM – minimum 4 gigabytes
 - 2) Storage – minimum 100 gigabytes
 - 3) Processor – minimum quadcore or hexacore

3.2.2 Software Requirements

This subsection will provide the versions of software applications that must be installed.

The software requirements are as follows: -

1. Python
2. Firebase
3. Python IDE
4. Visual Studio Code
5. Django

Mobile/Desktop should be connected to the internet to make use of the website efficiently.

3.3 System Architecture

In design details, we analyse the System Architecture and System Modules in detail. We study the flow and process of the entire project in order to develop the project in an orderly and systematic manner. There are 3 modules in LogiPlacement-Placement Prediction, Resume and RoadMaps/Training. In LogiPlacement , user first sign's up if he/she is new user else log's in. The database used for storing login/signup details is Firebase, Then the user can check the chances of him/her of getting placed using the placement prediction section of the website ,the user entre all the necessary fields and using the random forest algorithm the results are predicted along with the message where is the need of improvement. The user can use the templates of the resume available on the resume section of the website after uploading the resume of user lastly users can use the RoadMap section in order to learn new technology. The figure shows the system architecture.

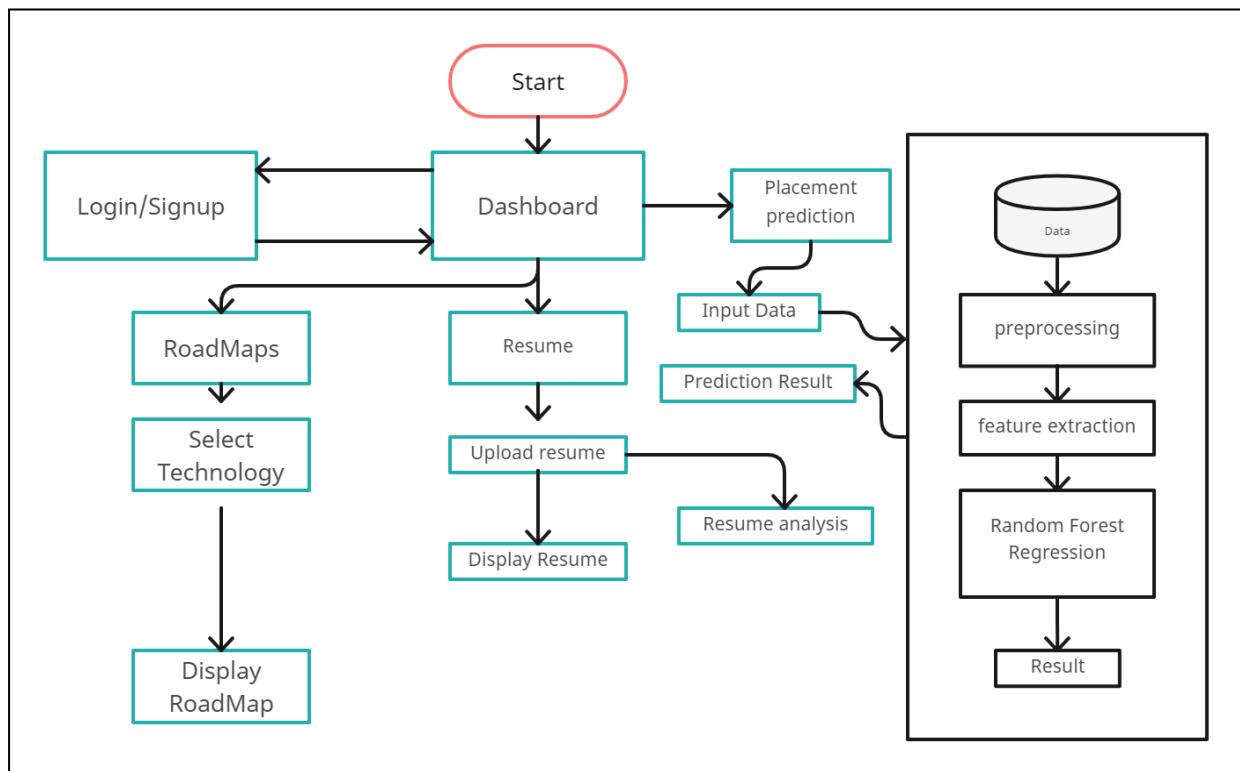


Figure. 3.3 – System Architecture

3.4 Gantt Chart

A number of activities need to be scheduled and followed to complete the project smoothly. The gantt chart at a glance provides information regarding the activities and their schedule visually.

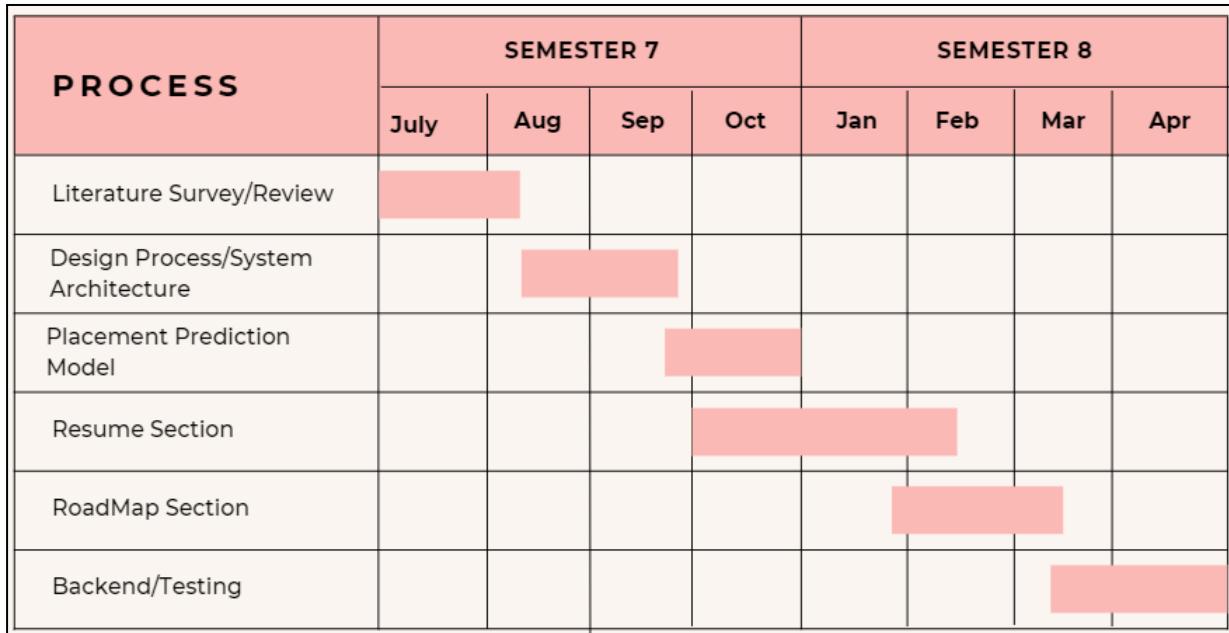


Figure-3.4 Gantt Chart

The Gantt chart illustrates the project timeline and tasks involved in the development of the proposed system. The initial phase of the project involved topic selection and requirements gathering, which took longer than anticipated due to the complexity of defining the project scope. Following this, the team dedicated several months to analyzing the chosen topic in detail, gathering additional requirements, and conducting a thorough literature survey to understand existing solutions and approaches. Acquiring the perfect dataset proved to be a significant challenge, requiring considerable time and effort. However, after a brief break period, the focus shifted towards designing the system's modules and coding the necessary functionalities. Subsequently, attention was directed towards designing the user interface (UI) and collecting static data essential for the application's functionality.

The testing phase was crucial for ensuring the system's robustness and functionality. Various test cases were employed to thoroughly test the model, and subsequent adjustments were made to address any identified issues or shortcomings. Once the development and testing phases were complete, the team worked on publishing a paper documenting their work and findings.

3.5 Data Model and Description

Data Model describes the relationship and association among data which includes Entity Relationship Model.

3.5.1 Entity Relationship Diagram

Figure 3.4 shows the Entity Relationship Diagram of the proposed system. Entity Relationship diagram is a data modelling technique that graphically illustrates an information system's entities and the relationships between those entities. Here, the entities are: - User, Student, Placement Prediction and Resume . The diagram shows the different attributes of these entities and also shows the relationship among these different entities.

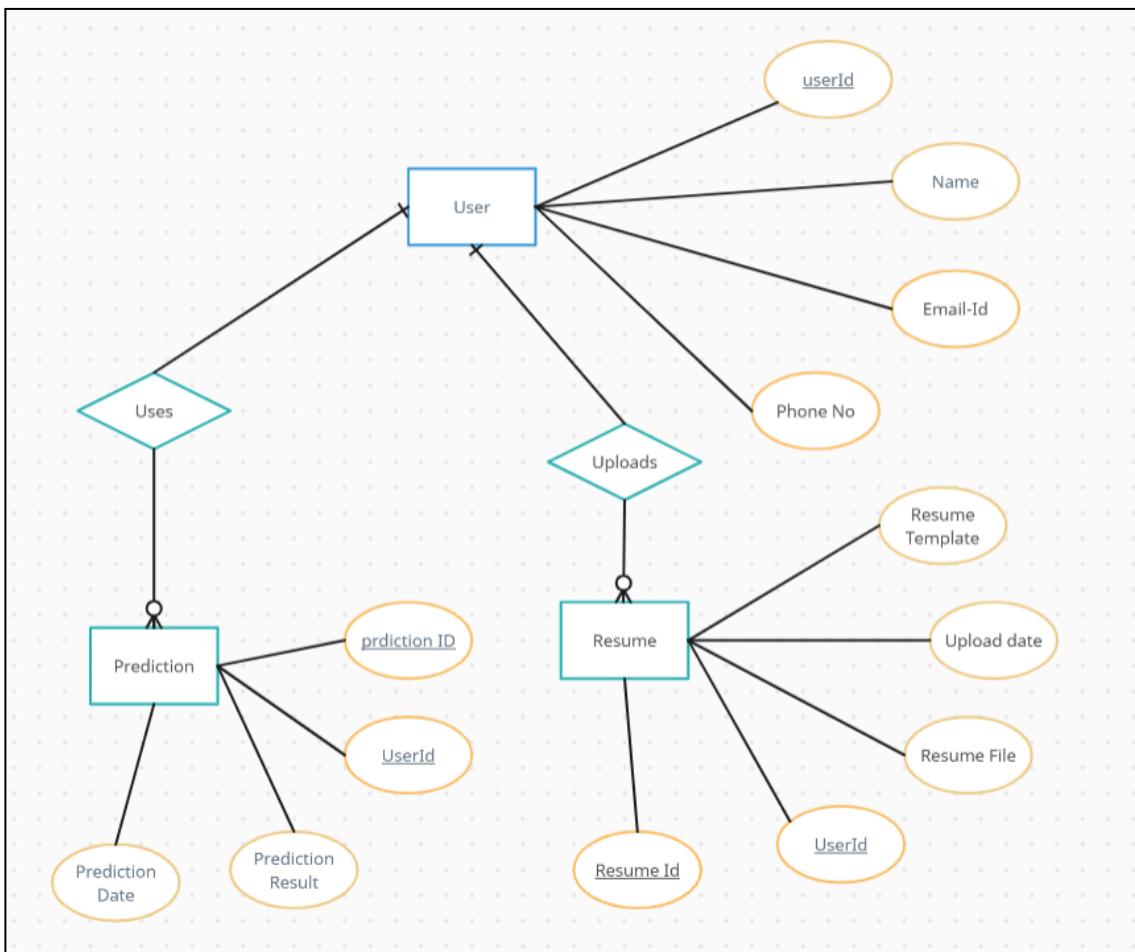


Figure 3.5 - Entity Relationship Diagram

3.6 Fundamental Model

Fundamental model of the project gives an overall idea about the project. How the entities are related to each other, what are the attributes of the entities, how the data flows between the entities is shown by the fundamental model.

3.6.1 Data Flow Model

Data Flow Diagram (DFD) shows graphical representation of the " flow" of data through an information system, modeling its process aspects. It includes data inputs and outputs, data stores, and the various sub processes the data moves through. DFDs are built using standardized symbols and notation to describe various entities and their relationships.

DFD LEVEL 0

Figure 3.5 denotes the Level 0 Data Flow Diagram of the proposed system. It is also known as the Context Diagram. This is the most basic representation of the system. It shows a data system as a whole and emphasizes the way it interacts with external entities. It is a complex representation of the entire system. It displays the most abstract form of a system. It gives a quick idea about the data flow inside the system. There is only one visible process that represents the functions of a complete system. The system for simplification is divided by three entities that make up the level 0 DFD i.e. User, Searchious application and Police Officer. There is two-way communication between the user and the Searches application. The user files a complaint or uploads a picture and gets the result by the application. Police Officer updates the Searches through the database.

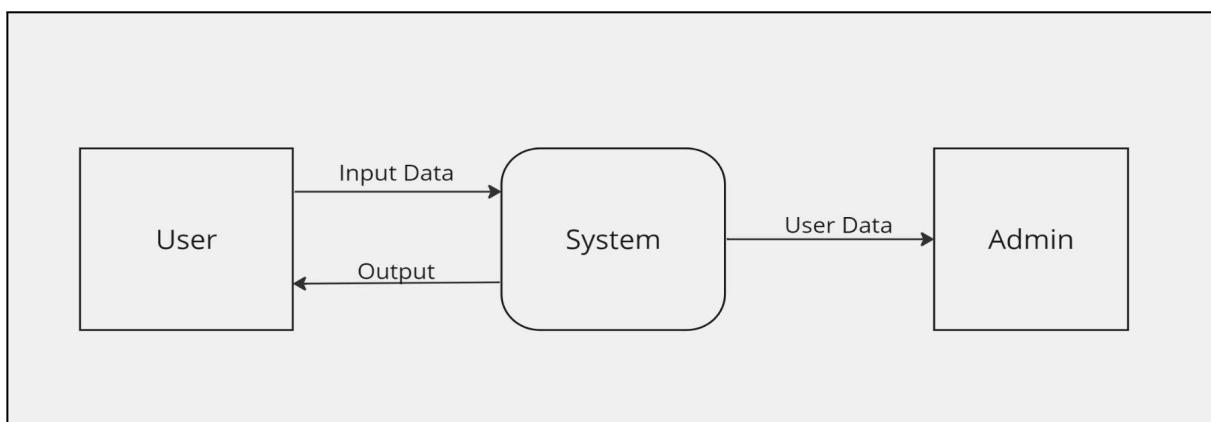


Figure 3.6.1 – DFD Level 0

DFD Level 1

Figure 3.6 shows the Level 1 Data Flow Diagram of the proposed system. It is exactly the same as the Level 0 DFD, but much simplified. The Level 1 DFD shows how the system is divided into subsystems i.e. subprocesses, each of which deals with one or more of the data flows to or from an external agent, and which together provide all of the functionality of the system as a whole. It breaks down the main processes and subprocesses that can then be analysed and improved on a more intimate level. The DFD level 0 components are broken down into sub parts where Searches application is divided into Login process, Placement Prediction, Resume and Roadmaps.

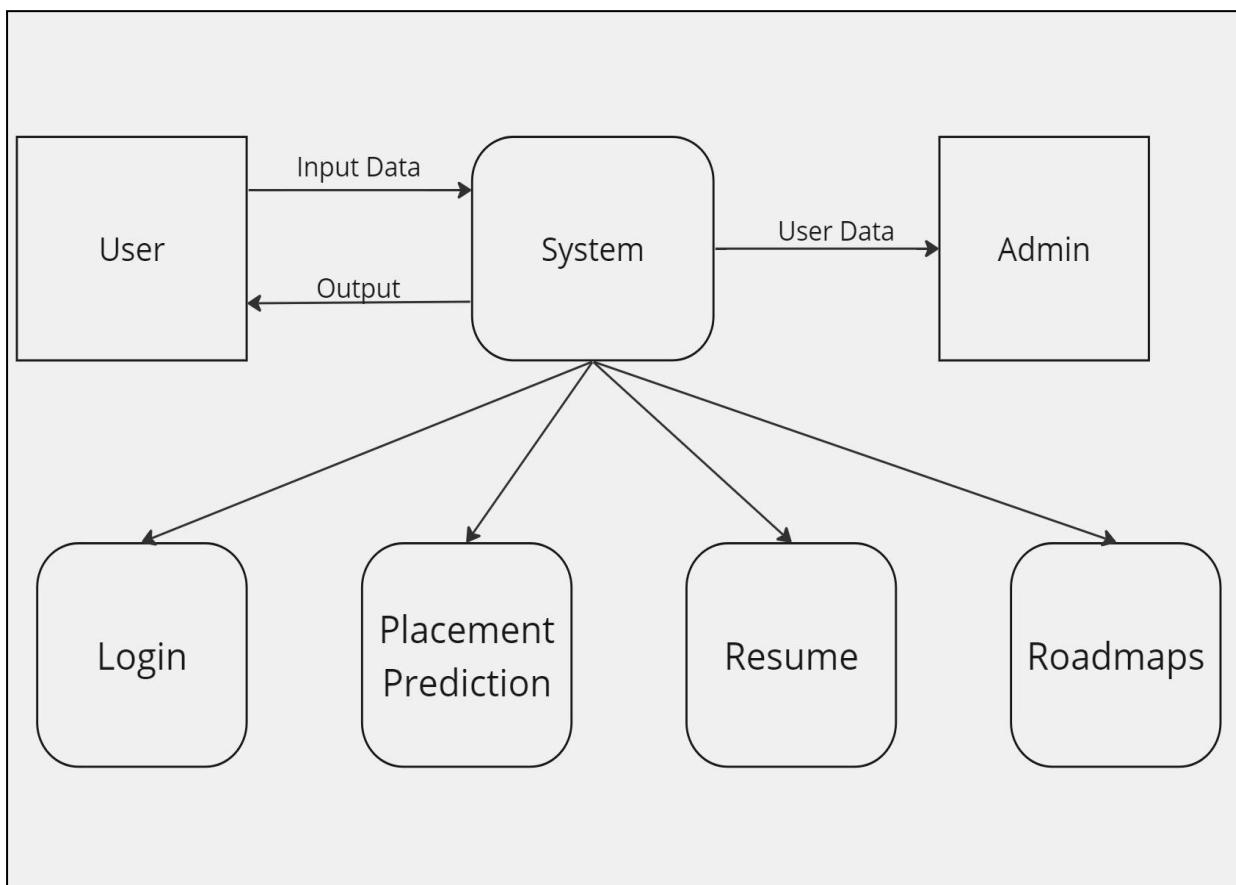


Figure 3.6.2 – DFD Level 1

DFD LEVEL 2

Figure 3.7 shows the Level 2 Data Flow Diagram of the proposed system. It is exactly the same as the Level 1 DFD, but much simplified. The Level 2 DFD shows how the system is divided

into sub- sub systems i.e. subprocesses, each of which deals with one or more of the data flows to or from an external agent, and which together provide all of the functionality of the system as a whole. It breaks down the subprocess into subprocesses that can then beanalysed and improved on a more intimate level. The DFD level 1 components are broken down into sub parts where the login process is divided into forget password and reset password. Placement prediction is further divided into results prediction, Resume is further divided into Resume analysis and template resumes, and Roadmaps is divided into Aptitude tests and learning paths.

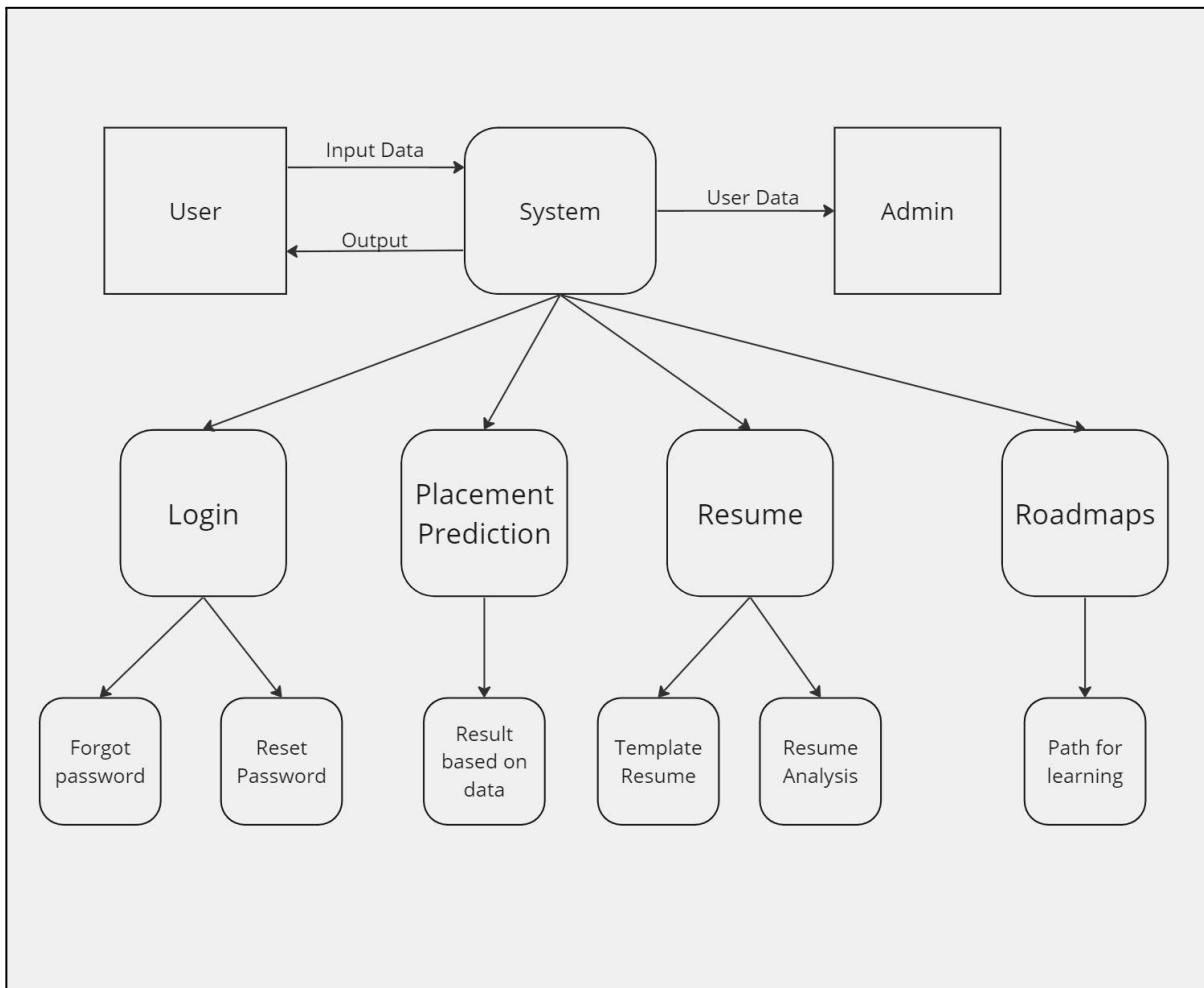


Figure 3.6.3 – DFD Level 2

3.7 UML (Unified Modelling Language) Diagram

The Unified Modelling Language is a general-purpose, developmental, modelling language in the field of software engineering that is intended to provide a standard way to visualize the design of a system. We have prepared and designed the UML diagrams of – Use Case, Activity, Component, Deployment and Sequence Diagrams.

3.7.1 Use Case Diagram

Figure 3.8 denotes the Use Case Diagram of the proposed system. It shows the user's interaction with the systems. The purpose of a use case diagram in Unified Modelling Language (UML) is to demonstrate the different ways that a user might interact with a system.

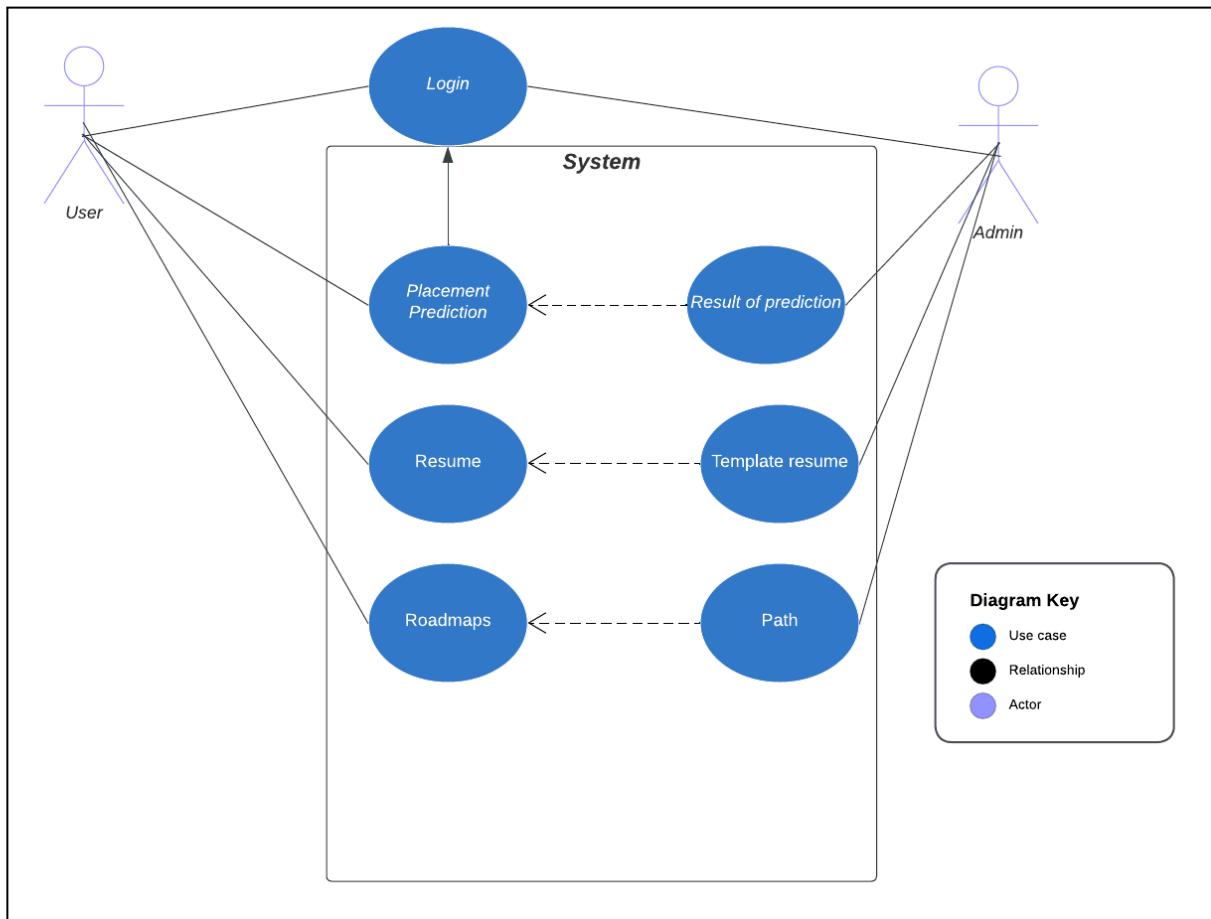


Figure 3.7.1 – Use Case Diagram

3.8 Activity Diagram

In figure 3.8, we can observe the activity diagram. The three elements are Resume, Placement Prediction and Roadmaps. The users predict the placement using placement prediction system uses resume section for resume analysis and template resumes and roadmaps for learning new technologies

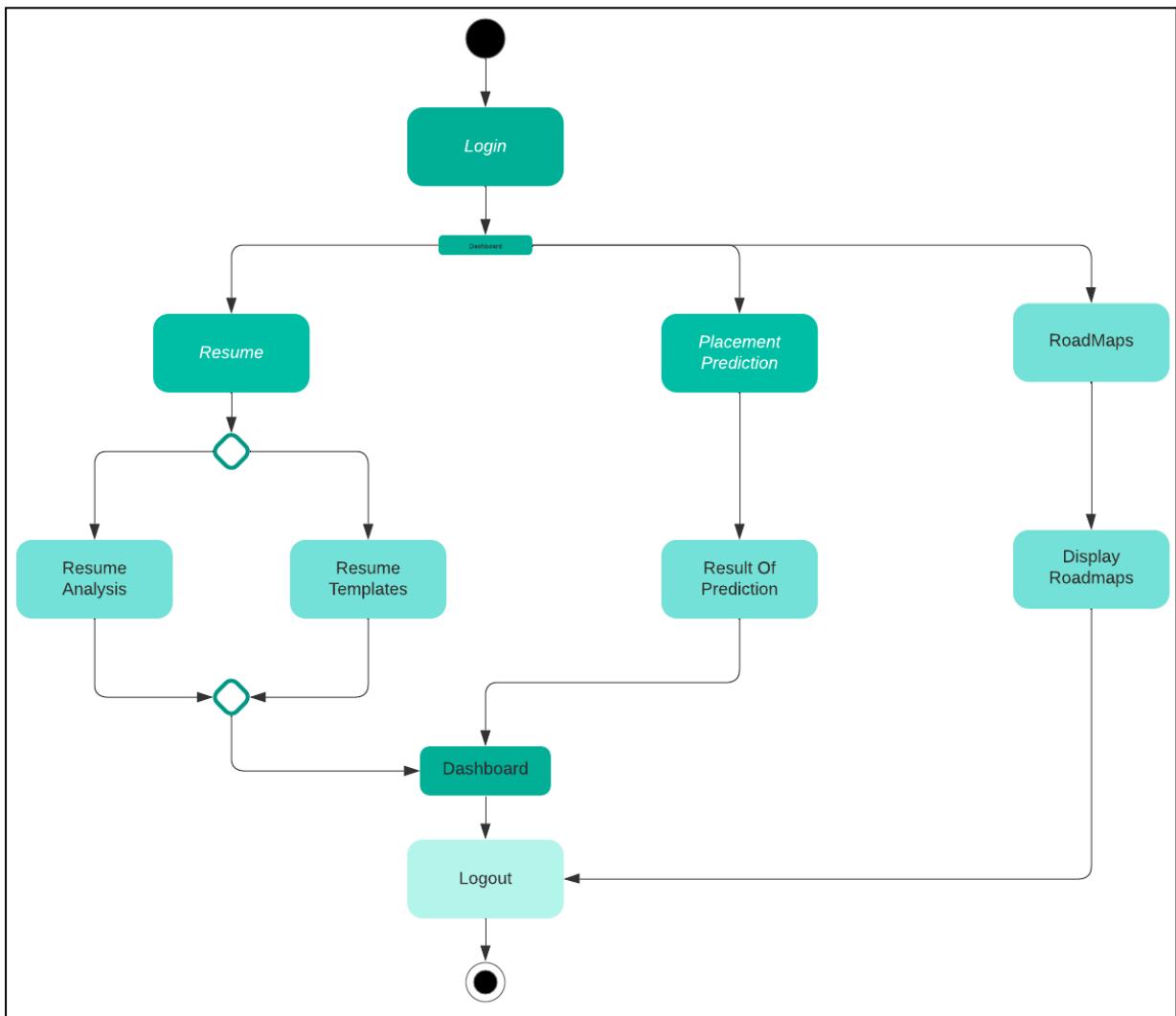


Figure 3.8 – Activity Diagram

3.9 Sequence Diagram

In figure 3.9, we can observe the sequence diagram. The three elements are Resume, Placement Prediction and Roadmaps. The users predict the placement using a placement prediction system that uses resume section for resume analysis and template resumes and roadmaps for learning new technologies.

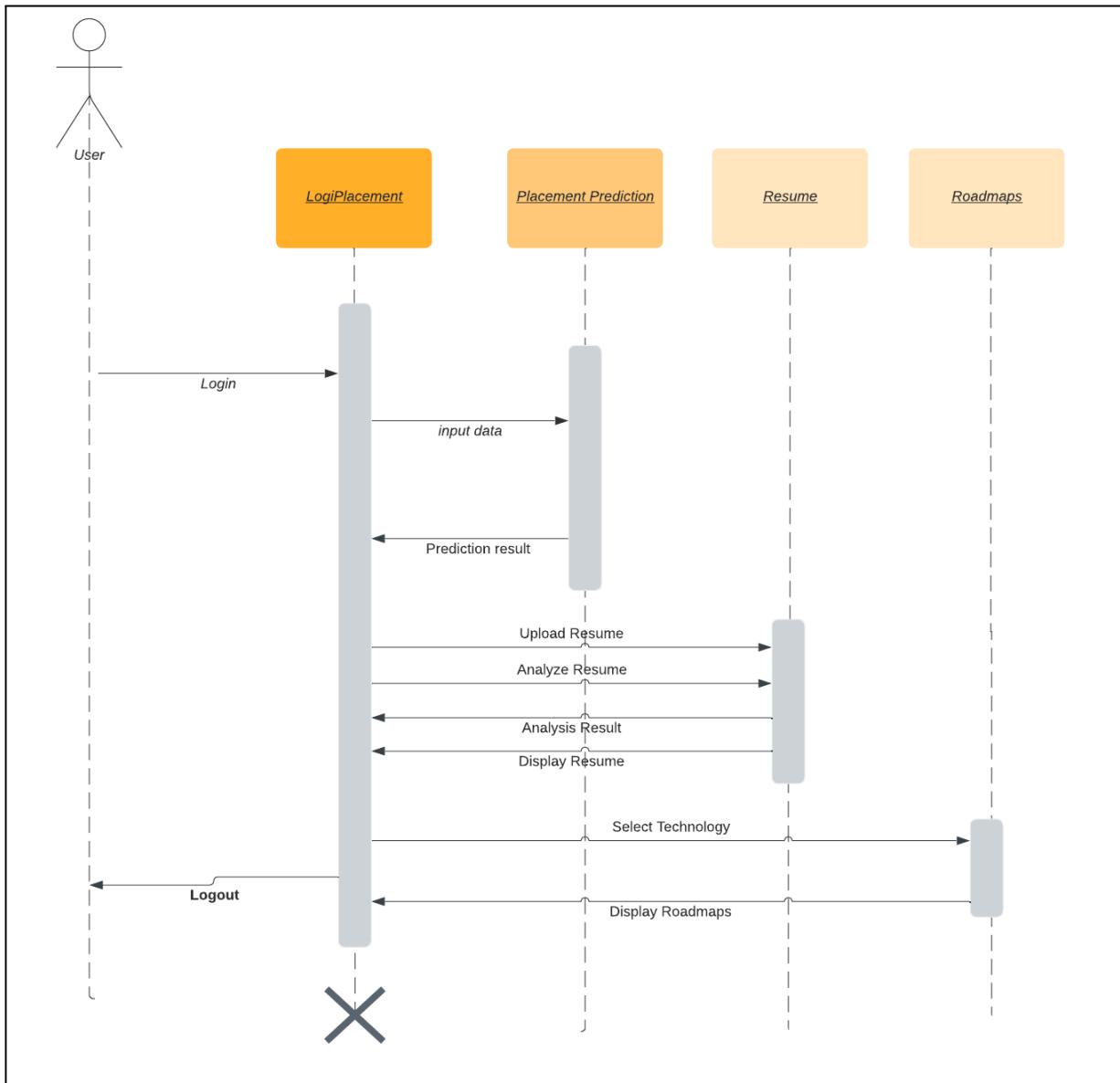


Figure 3.9 – Sequence Diagram

3.10 Methodology

Random Forest Regression is a robust and versatile machine learning technique tailored for solving regression problems where the goal is to predict continuous numerical values. This method leverages the power of an ensemble of decision trees, each trained on a different random subset of the training data, coupled with the random selection of a subset of features at each node during tree construction. This inherent randomness not only guards against overfitting but also allows Random Forest Regression to capture complex non-linear relationships and interactions in the data. When making predictions, it combines the outputs of the individual trees by averaging them, resulting in a highly accurate and stable regression model. Moreover, Random Forest Regression offers the advantage of feature importance assessment, aiding in the identification of the most influential predictors. It finds application in diverse domains, from finance and economics to environmental science, providing a reliable tool for forecasting, data analysis, and decision-making tasks that involve predicting continuous numerical outcomes.

- Dataset used: We used student Recruitment dataset(DATASET.csv) that is well accessible online and additionally you'll be able to download it.
- Placement-Prediction: This Module includes a python file that is the Random Forest Regression Machine Learning model that trains on the basis of training data and tests on the testing data to give accurate results.

- Methodology / Approach

Step 1: Data Collection

Step 2: Data Preprocessing

Step 3: Feature Engineering

Step 4: Data Splitting

Step 5: Model Selection

Step 6: Model Training

Step 7: Model Evaluation

Following are list of libraries used:

1.Sklearn

2.Pandas

3.Pyresparser.

3.11 Test Cases

A test case of assessment is a set of conditions or variables under which a tester will determine whether a system under test satisfies requirements or works correctly. The process of developing test cases can also help find problems in the requirements or design of an application. Table 3.11 shows various test cases which flow of activities is considered while implementing LogiPlacement, the proposed system application. The table contains a test case for Assessor as user. The test case provides a brief overview of input of the user interface by user and action of that input on the database. Also shows the Assessor task and working cases of the same.

Table 3.11 - Test cases

Test case Id	Test case description	Prerequisite	User Role	Test Data	Expected Output	Actual Output	Test Status
1	Landing Page User Interface	Click on Login/Sig nup	user	http://127.0.0.1:8000/	Landing page with animation	Landing page with animation	Pass
2	Login/Signup	Enter details and click on Submit	user	http://127.0.0.1:8000/lo gin	On submit, Redirect to homepage	On submit, Redirect to homepage	Pass
3	Placement Prediction section using navbar	click on prediction button	user	http://127.0.0.1:8000/pr ediction/	On clicking redirect to Placement prediction page	On clicking redirected to Placement prediction page	Pass
4	Predicting placement	Enter the details and click submit	user1	http://127.0.0.1:8000/pr ediction/	On click submit, reload window and display output	On click submit, reloaded window and displayed output	Pass
5	Resume Section using navbar	click on prediction button in navbar	user	http://127.0.0.1:8000/res umepage/	On clicking redirect to Resume	On clicking redirected to Resume	Pass

					Section page	Section page	
6	Resume Upload	Select Resume File, Select job role, click submit	user	http://127.0.0.1:8000/resumepage/upload_resume/	On clicking submit resume should be uploaded on Firebase database	On clicking submit resume uploaded on Firebase database	Pass
7	Resume Download/templates	Click on view Resume	user	http://127.0.0.1:8000/resume_download	On click view Resume template Resumes should be displayed	On click view Resume template Resumes displayed	Pass
8	Resume analysis	Select Resume and Click Analyse Resume	user	http://127.0.0.1:8000/resumepage/analyzereum	On click resume analysis, redirect to resume analysis result page and display analysis result	On click resume analysis, redirected to resume analysis result page and displayed analysis result	Pass
9	RoadMap Section using navbar	Click on Learning in Navbar	user	http://127.0.0.1:8000/learning	On clicking redirect to RoadMaps page	On click redirected to RoadMaps page	Pass

10	interview Section	Click on interview in Learning section	user	http://127.0.0.1:8000/interview	get list of interview question pdf link according to their domains click that links to get interview question pdfs	got list of interview question pdf link according to their domains on click that links got interview question pdfs	Pass
11	RoadMaps Section	Click on RoadMap section in Learning section	user	http://127.0.0.1:8000/roadmap	get list of Roadmaps according to their domains	got list of RoadMaps according to their domains	Pass
12	Study Material Section	Click on Study Materials Section	user	http://127.0.0.1:8000/links	Get list of youtube channels and videos according to their domain	Got list of youtube channels according to their domain	Pass
13	Logout	click on logout on homepage	user	http://127.0.0.1:8000/	On click Logout, logout and redirect to landing page	On Clicking Logout redirected to Landing page and logged out	Pass

Chapter 4

Result and Discussion

This chapter includes the snapshots of the actual outputs that were seen by the user and this chapter also contains the results of the proposed system.

4.1 Proposed System Result

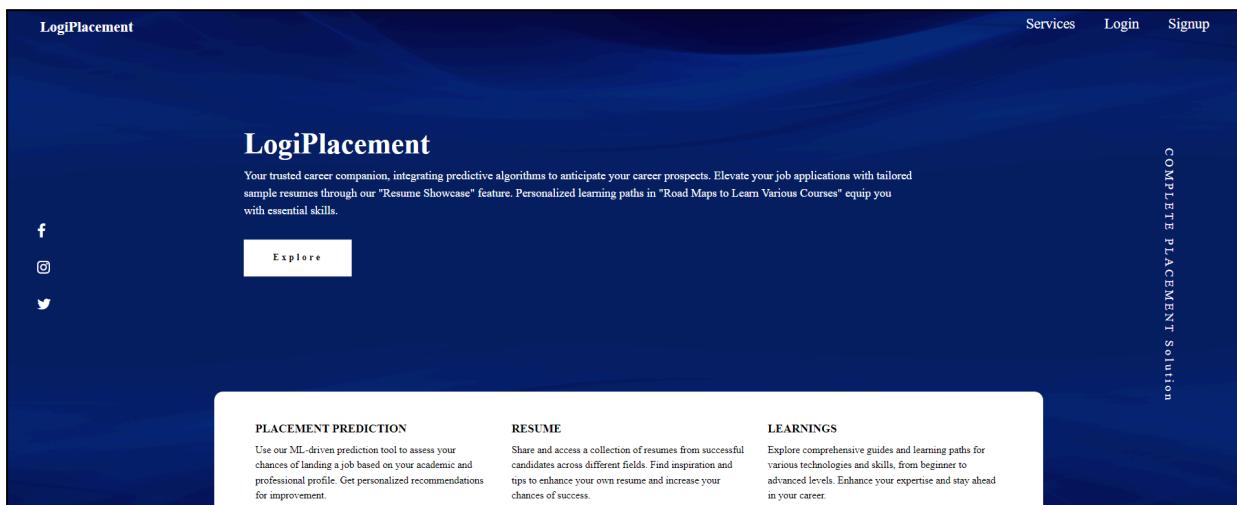


Fig-4.1 Landing Page

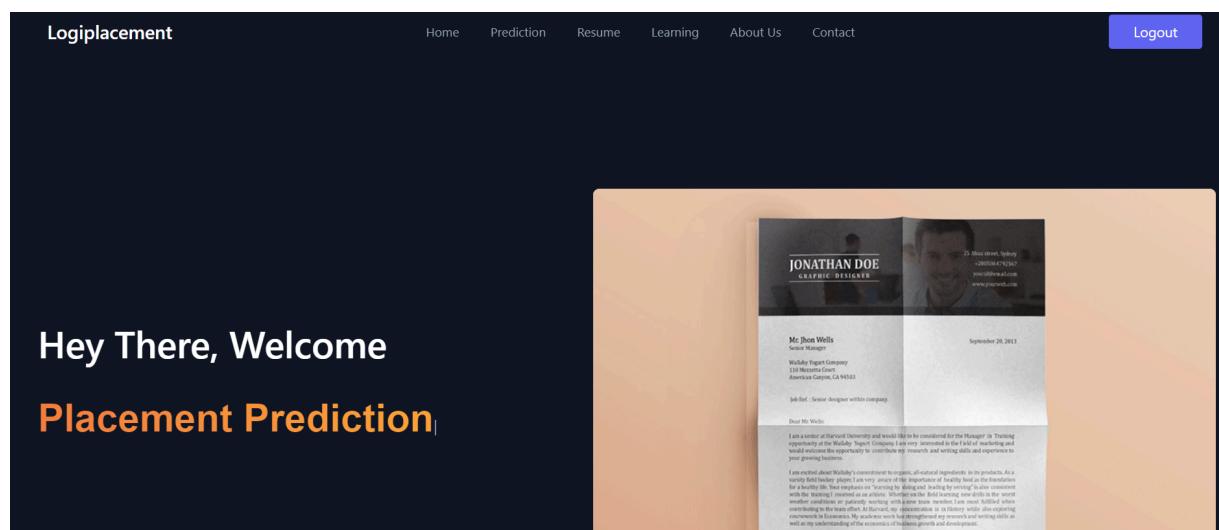


Figure 4.2 Dashboard after Login page

STEP 1 : Data Collection
Gathered student data including Age, Gender, Stream, Internships, CGPA, Hostel Stay, and Backlogs.

STEP 2 : Entities
Age, Gender, Stream: Basic student details.
Internships, CGPA, Hostel, Backlogs: Performance indicators.

STEP 3 : Machine Learning Model Used
Linear Regression for performance prediction.

STEP 4 : Model Deployment
The trained model is saved into a 'pickle' file, ready for deployment and use.

FINISH
Upon submitting the form with the student's details, the model predicts and displays the expected outcome, providing insights into the student's performance. As will be "Placed" "Maybe Placed" or "Not Placed"

Enter Student Details

Age	21
Gender	Male
Stream	Electronics and Communication
Internships	1
CGPA	9
Hostel	Yes
Backlogs	1

Submit

Figure 4.3 Placement Prediction Page

STEP 1 : Data Collection
Gathered student data including Age, Gender, Stream, Internships, CGPA, Hostel Stay, and Backlogs.

STEP 2 : Entities
Age, Gender, Stream: Basic student details.
Internships, CGPA, Hostel, Backlogs: Performance indicators.

STEP 3 : Machine Learning Model Used
Linear Regression for performance prediction.

STEP 4 : Model Deployment
The trained model is saved into a 'pickle' file, ready for deployment and use.

FINISH
Upon submitting the form with the student's details, the model predicts and displays the expected outcome, providing insights into the student's performance. As will be "Placed" "Maybe Placed" or "Not Placed"

Enter Student Details

Age	Age
Gender	Male
Stream	Electronics and Communication
Internships	No of Internships Done
CGPA	CGPA
Hostel	Yes
Backlogs	No of Backlogs

Submit

Result of prediction is Not Placed

WE recommend you to clear all the backlogs

WE recommend you to increase number of internships

Figure 4.4 Placement Prediction Output Page

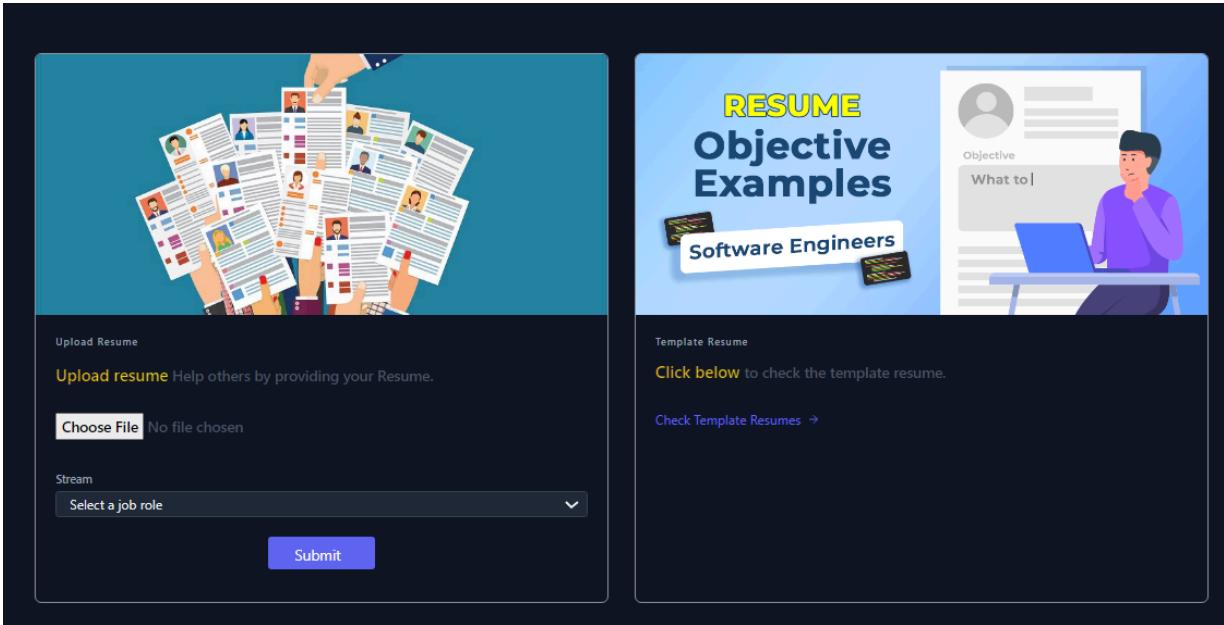


Figure 4.5 Resume Section,upload and templates

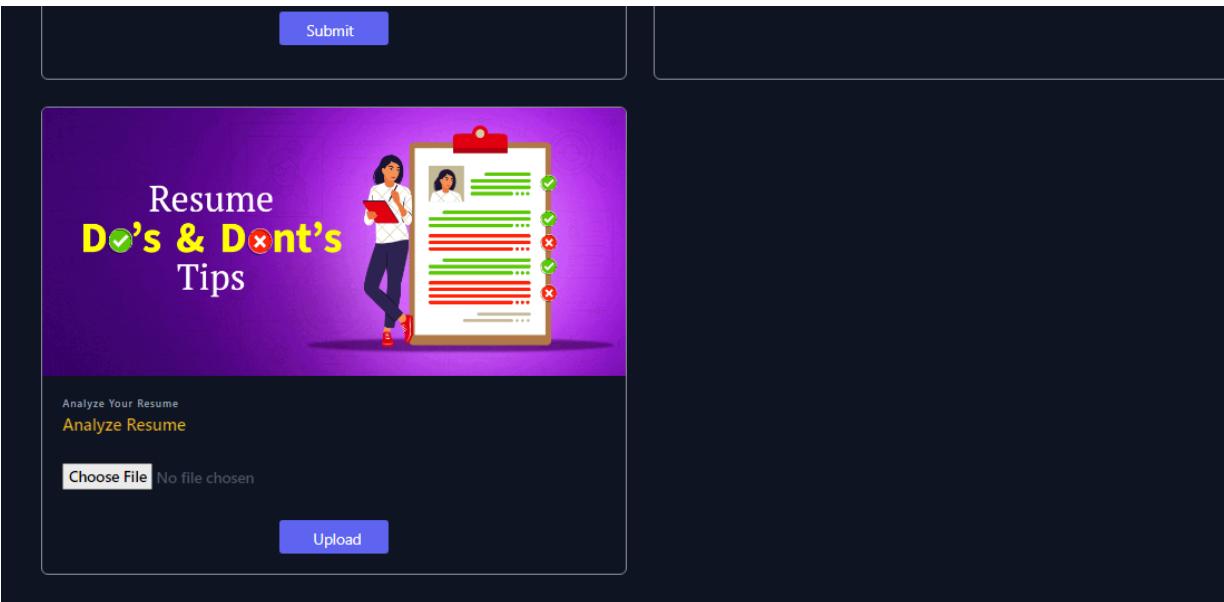


Figure 4.6 Resume Section

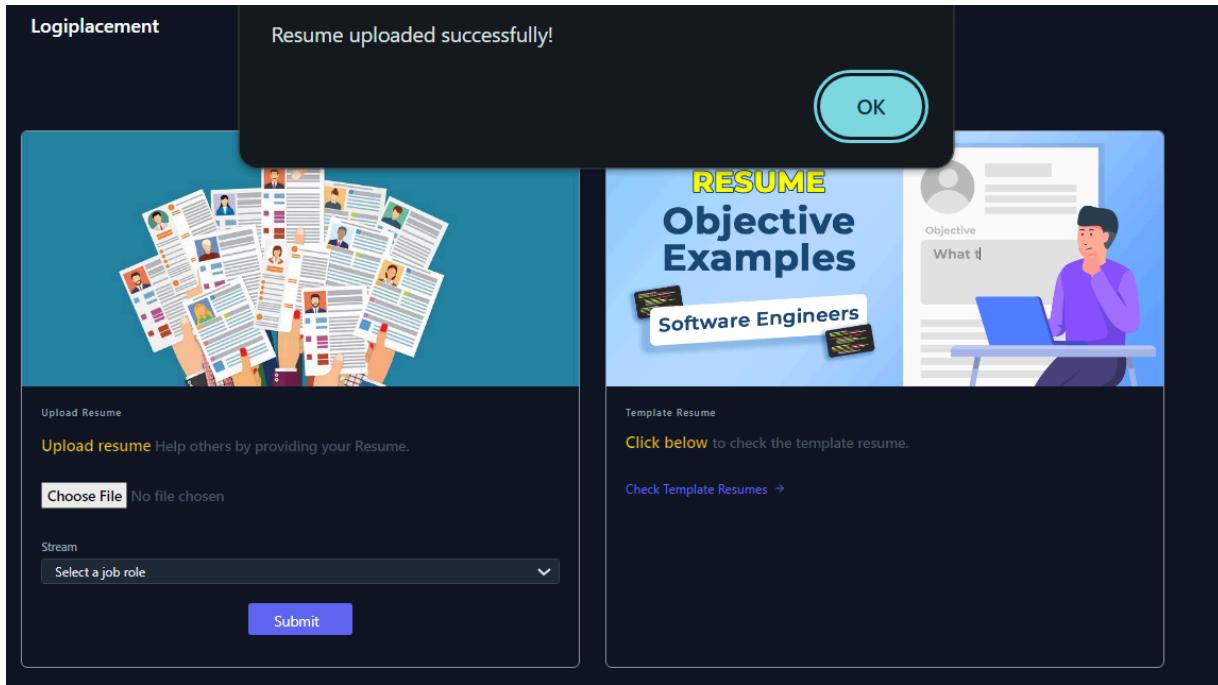


Figure 4.7 Resume Upload successfully Page

Resume Title	Author	Summary	Skills	Professional Goals
android-developer-1559034496.pdf	ROBERT SMITH	Android Developer Objective: Over 5 years of industry experience with a passion of innovation and client satisfaction. Strong in the field of Android Development in developing front end applications for clients. Experienced developer in Java, Kotlin, and React Native.	Java, Kotlin, React Native	A developer with keen analytical skills and strong problem-solving skills for research and its implementation. Strong communication and teamwork skills. Team player with ability to work under pressure and meet deadlines. Strong creative and analytical skills. Team player with ability to work under pressure and meet deadlines.
blue professional modern CV resume.pdf	RICHARD SANCHEZ	Data Scientist Objective: Data Scientist with Python and R experience. The goals of seeking experience in Data Science and Machine Learning. I am looking for opportunities to apply my skills in Data Science, Machine Learning, and Deep Learning to solve complex problems.	Python, R, Data Science, Machine Learning, Deep Learning	A developer with keen analytical skills and strong problem-solving skills for research and its implementation. Strong communication and teamwork skills. Team player with ability to work under pressure and meet deadlines. Strong creative and analytical skills. Team player with ability to work under pressure and meet deadlines.
data-scientist_iOS1.pdf.pdf	Samantha Ru	iOS DEVELOPER Objective: 4+ years of experience in developing applications in iOS. Strong in Swift programming language. Experience in working with databases like MySQL and PostgreSQL.	Swift, MySQL, PostgreSQL	A developer with keen analytical skills and strong problem-solving skills for research and its implementation. Strong communication and teamwork skills. Team player with ability to work under pressure and meet deadlines. Strong creative and analytical skills. Team player with ability to work under pressure and meet deadlines.
data-scientist_Vismay-Malviya-Resume.pdf.pdf	VISMAY MALVIYA	Android Developer Objective: Over 5 years of industry experience with a passion of innovation and client satisfaction. Strong in the field of Android Development in developing front end applications for clients. Experienced developer in Java, Kotlin, and React Native.	Java, Kotlin, React Native	A developer with keen analytical skills and strong problem-solving skills for research and its implementation. Strong communication and teamwork skills. Team player with ability to work under pressure and meet deadlines. Strong creative and analytical skills. Team player with ability to work under pressure and meet deadlines.
data-scientist_android-developer-1559034496.pdf.pdf	ROBERT SMITH	Android Developer Objective: Over 5 years of industry experience with a passion of innovation and client satisfaction. Strong in the field of Android Development in developing front end applications for clients. Experienced developer in Java, Kotlin, and React Native.	Java, Kotlin, React Native	A developer with keen analytical skills and strong problem-solving skills for research and its implementation. Strong communication and teamwork skills. Team player with ability to work under pressure and meet deadlines. Strong creative and analytical skills. Team player with ability to work under pressure and meet deadlines.
data-scientist_data-scientist-1559725114.pdf.pdf	ROBERT SMITH	Data Scientist Objective: Data Scientist with Python and R experience. The goals of seeking experience in Data Science and Machine Learning. I am looking for opportunities to apply my skills in Data Science, Machine Learning, and Deep Learning to solve complex problems.	Python, R, Data Science, Machine Learning, Deep Learning	A developer with keen analytical skills and strong problem-solving skills for research and its implementation. Strong communication and teamwork skills. Team player with ability to work under pressure and meet deadlines. Strong creative and analytical skills. Team player with ability to work under pressure and meet deadlines.
project-manager_kishan_resume.pdf.pdf	Kishan L.Ukani	Student Objective: Over 5 years of industry experience with a passion of innovation and client satisfaction. Strong in the field of Android Development in developing front end applications for clients. Experienced developer in Java, Kotlin, and React Native.	Java, Kotlin, React Native	A developer with keen analytical skills and strong problem-solving skills for research and its implementation. Strong communication and teamwork skills. Team player with ability to work under pressure and meet deadlines. Strong creative and analytical skills. Team player with ability to work under pressure and meet deadlines.
software-engineer_Vismay-Malviya-Resume.pdf	VISMAY MALVIYA	Android Developer Objective: Over 5 years of industry experience with a passion of innovation and client satisfaction. Strong in the field of Android Development in developing front end applications for clients. Experienced developer in Java, Kotlin, and React Native.	Java, Kotlin, React Native	A developer with keen analytical skills and strong problem-solving skills for research and its implementation. Strong communication and teamwork skills. Team player with ability to work under pressure and meet deadlines. Strong creative and analytical skills. Team player with ability to work under pressure and meet deadlines.
software-engineer_data-scientist-1559725114.pdf.pdf	ROBERT SMITH	Data Scientist Objective: Data Scientist with Python and R experience. The goals of seeking experience in Data Science and Machine Learning. I am looking for opportunities to apply my skills in Data Science, Machine Learning, and Deep Learning to solve complex problems.	Python, R, Data Science, Machine Learning, Deep Learning	A developer with keen analytical skills and strong problem-solving skills for research and its implementation. Strong communication and teamwork skills. Team player with ability to work under pressure and meet deadlines. Strong creative and analytical skills. Team player with ability to work under pressure and meet deadlines.
software-engineer_web dev.pdf.pdf				

Figure 4.8 Resume Download

The screenshot shows a resume for a Data Scientist named Robert Smith. The resume includes contact information (Phone: (123) 456 78 99, Email: info@qwikresume.com, Website: www.qwikresume.com, LinkedIn: linkedin.com/qwikresume, Address: 1737 Marshville Road, Alabama), an objective section, a skills section (Data Mining, Data Analysis, Machine Learning, Python, R, MATLAB, Sphinx, LaTeX, Mathematica, Maple, GIT, CVS, HTCondor), and work experience at ABC Corporation from May 1994 to May 2005. The work experience details include assisting in determining client needs, developing design, estimates and feasibility for analytical projects, and serving as an internal resource for Jackknife programming and documentation.

Your Current Skills are:

- Reporting, Website, Spark, Aws, Process, Research
- Email, R, Scala, Matlab, Cloud, Physics, Design, Programming, Python
- Automation, Litigation, Conversion, Documentation, Analytical
- Machine learning, Analysis, Analytics, Sphinx, Etl, Data analysis
- Algorithms, Mining

Resume Analysis Results:

Recommended Field: Data Science

Recommended Skills For Data Science:

- Data Visualization, Predictive Analysis, Statistical Modeling, Data Mining
- Clustering & Classification, Data Analytics, Quantitative Analysis
- Web Scraping, ML Algorithms, Keras, Pytorch, Probability, Scikit-learn
- Tensorflow, Flask, Streamlit

Figure 4.9 Resume Analysis Result

The screenshot shows a resume for a Data Scientist named Robert Smith. The resume includes contact information (Phone: (123) 456 78 99, Email: info@qwikresume.com, Website: www.qwikresume.com, LinkedIn: linkedin.com/qwikresume, Address: 1737 Marshville Road, Alabama), an objective section, a skills section (Data Mining, Data Analysis, Machine Learning, Python, R, MATLAB, Sphinx, LaTeX, Mathematica, Maple, GIT, CVS, HTCondor), and work experience at ABC Corporation from May 1994 to May 2005. The work experience details include assisting in determining client needs, developing design, estimates and feasibility for analytical projects, and serving as an internal resource for Jackknife programming and documentation.

Education

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Recommended Courses for Data Science:

- Data Scientist with Python, Machine Learning by Andrew NG
- Programming for Data Science with Python
- Machine Learning Crash Course by Google [Free]
- Machine Learning A-Z by Udemy
- Data Science Foundations: Fundamentals by LinkedIn
- Intro to Machine Learning with TensorFlow
- Data Scientist Master Program of Simplilearn (IBM)
- Programming for Data Science with R, Introduction to Data Science

Figure 4.10 Resume Analysis Course recommendation Result

The screenshot shows a resume for a Data Scientist named Robert Smith. The resume includes contact information (Phone: (123) 456 78 99, Email: info@qwikresume.com, Website: www.qwikresume.com, LinkedIn: linkedin.com/qwikresume, Address: 1737 Marshville Road, Alabama), an objective section, a skills section (Data Mining, Data Analysis, Machine Learning, Python, R, MATLAB, Sphinx, LaTeX, Mathematica, Maple, GIT, CVS, HTCondor), and work experience at ABC Corporation from May 1994 to May 2005. The work experience details include assisting in determining client needs, developing design, estimates and feasibility for analytical projects, and serving as an internal resource for Jackknife programming and documentation.

Resume Tips & Ideas

- [+] Awesome! You have added Objective
- [+] Please add Declaration. It will give the assurance that everything written on your resume is true and fully acknowledged by you
- [+] Please add Hobbies. It will show your personality to the Recruiters and give the assurance that you are fit for this role or not.
- [+] Please add Achievements. It will show that you are capable for the required position.
- [+] Please add Projects. It will show that you have done work related the required position or not.

Resume Score

Your Resume Writing Score: 20

Note: This score is calculated based on the content that you have in your Resume.

Bonus Video for Resume Writing Tips

Bonus Video for Interview Tips

Fig 4.11 Resume tips

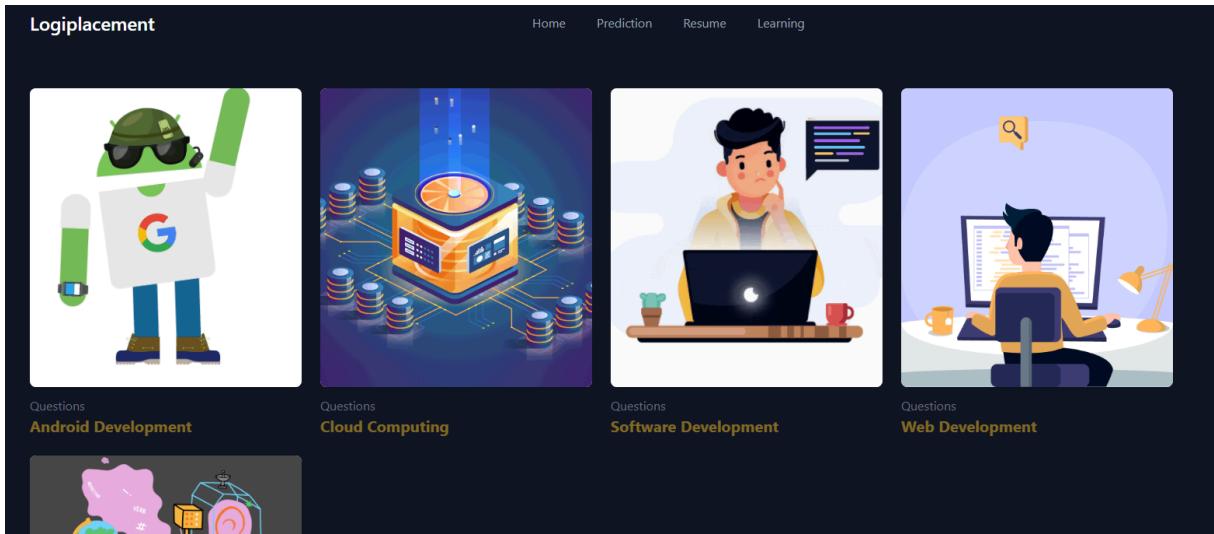


Figure 4.12 Interview Question Links Section

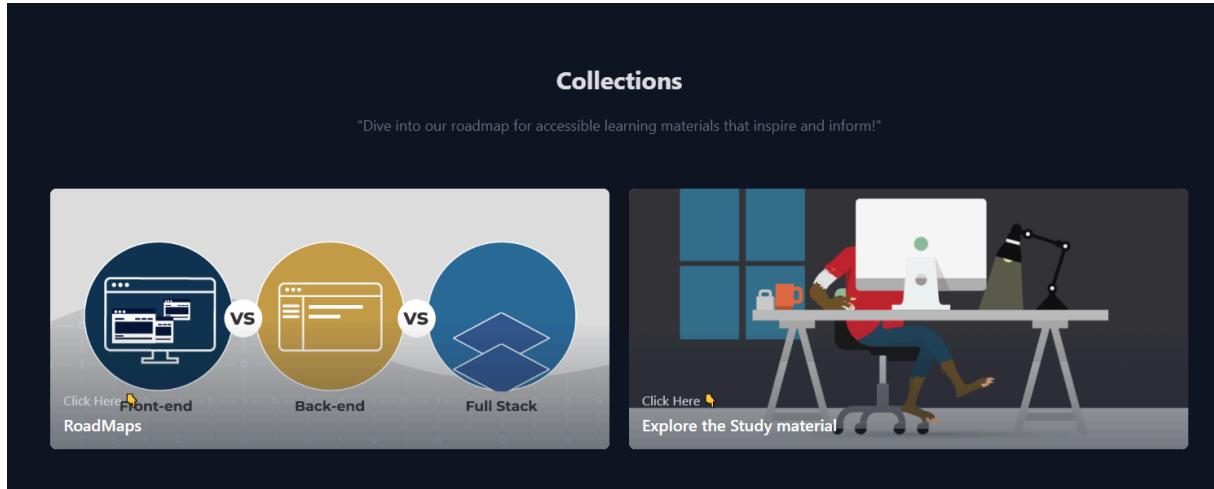


Figure 4.13 RoadMap Section

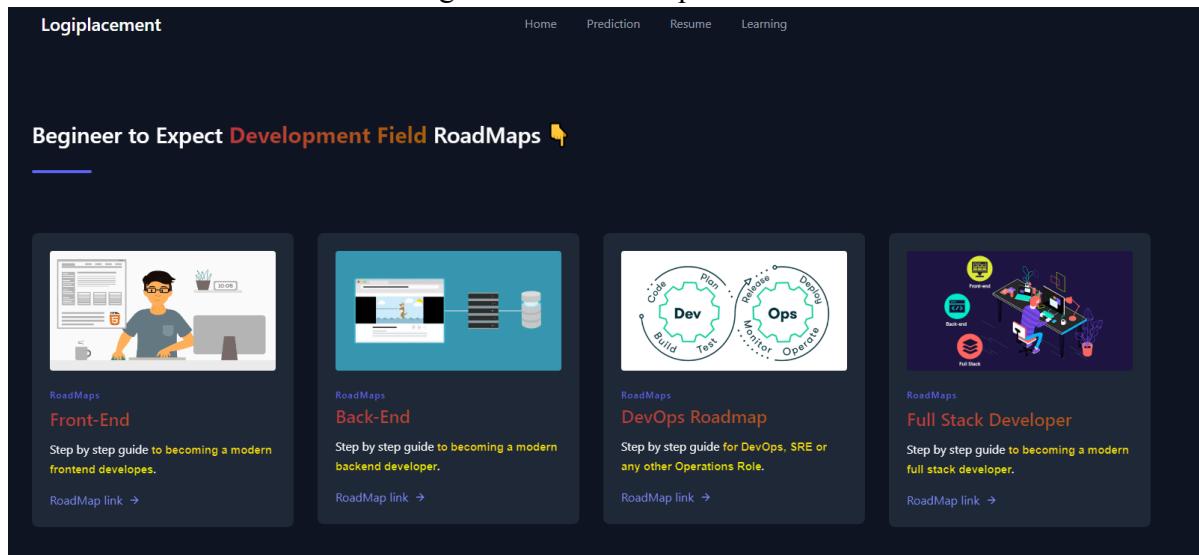


Figure 4.14 RoadMap Links Section

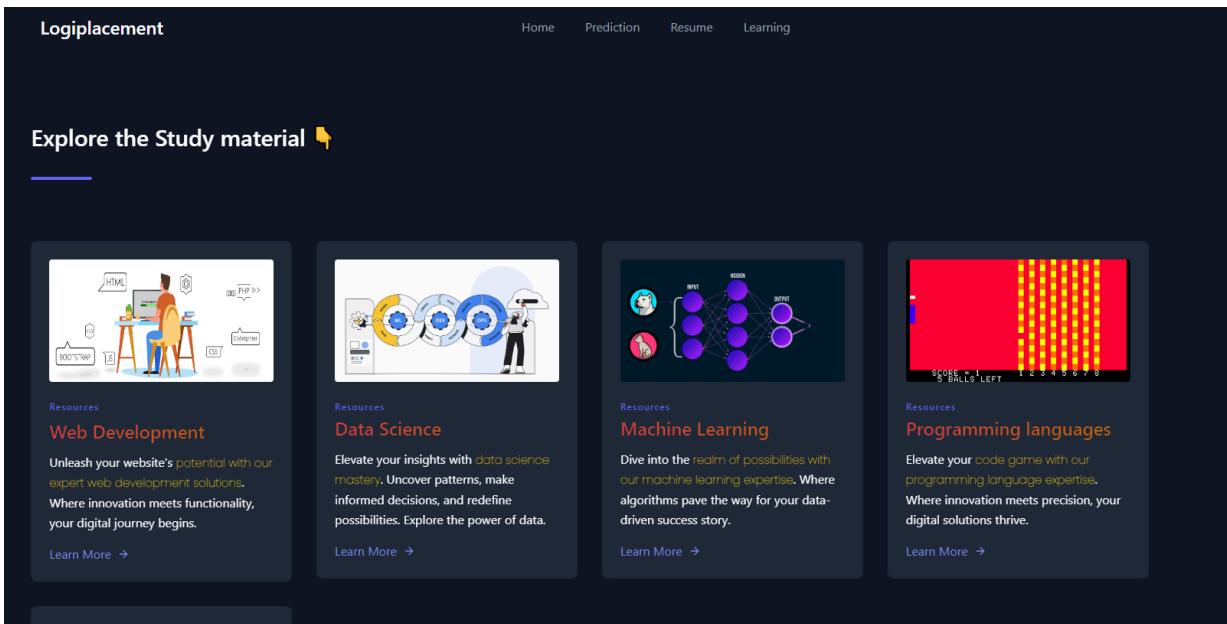


Figure 4.15 Study Material Section

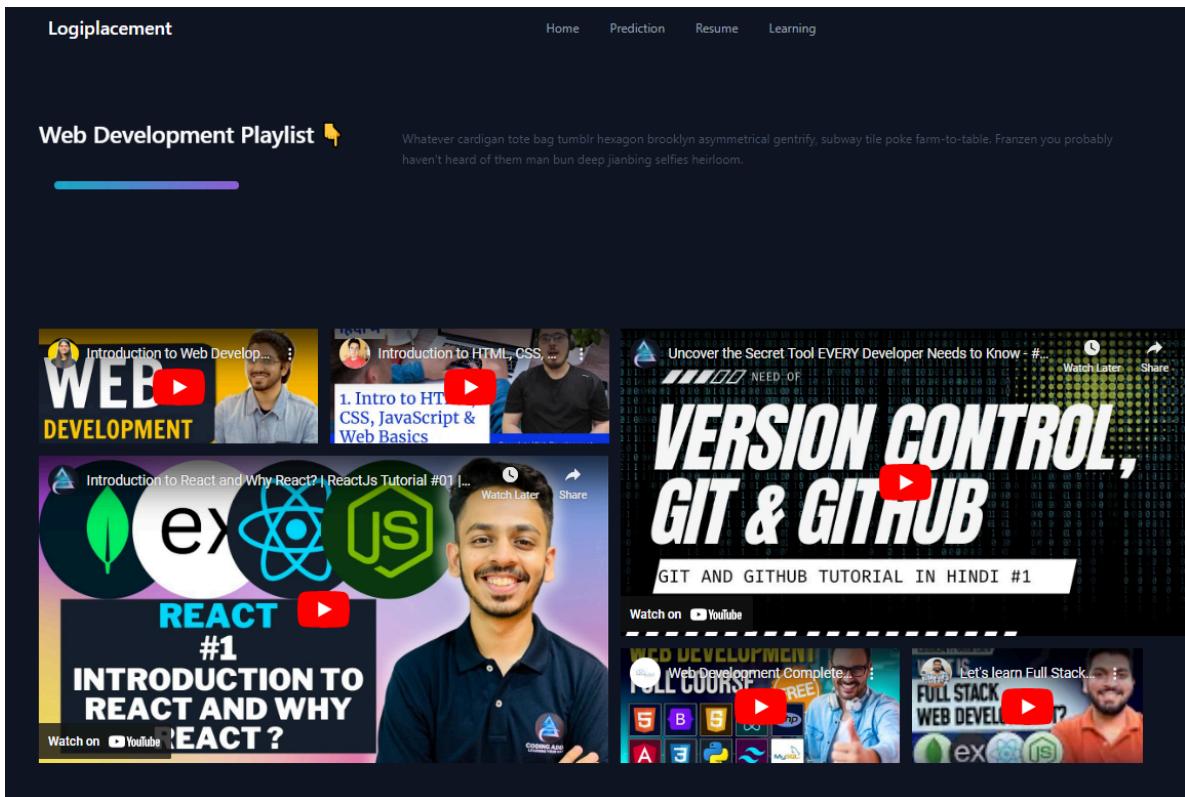


Figure 4.16 Youtube Playlist Section

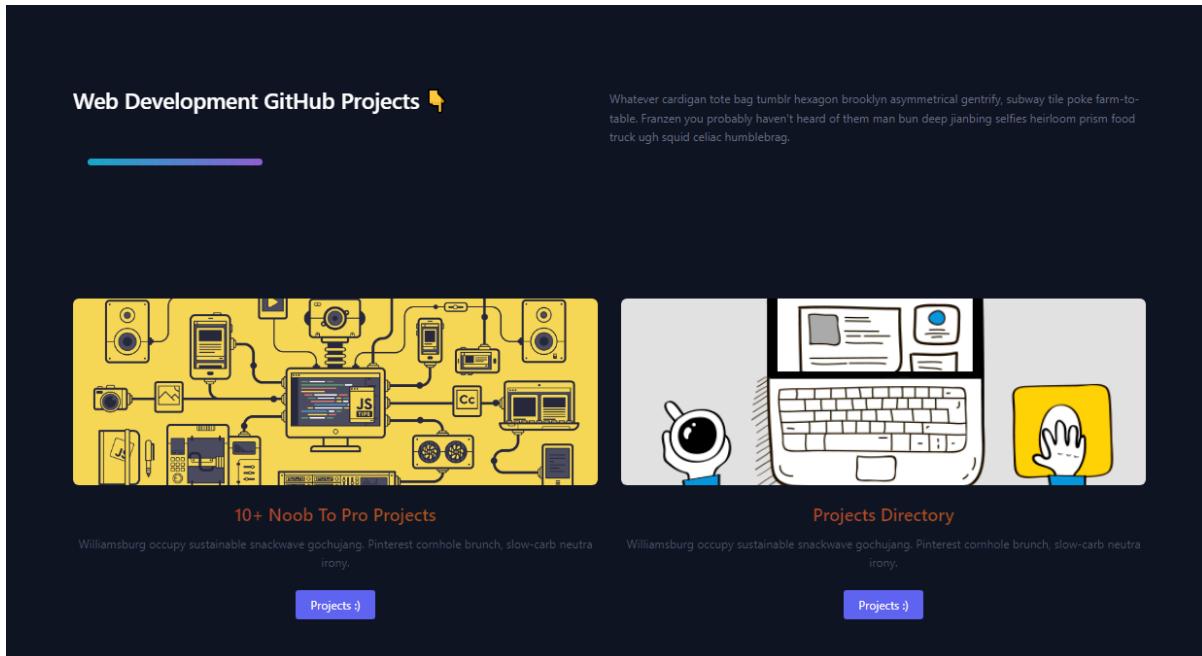


Figure 4.17 Github Projects Links

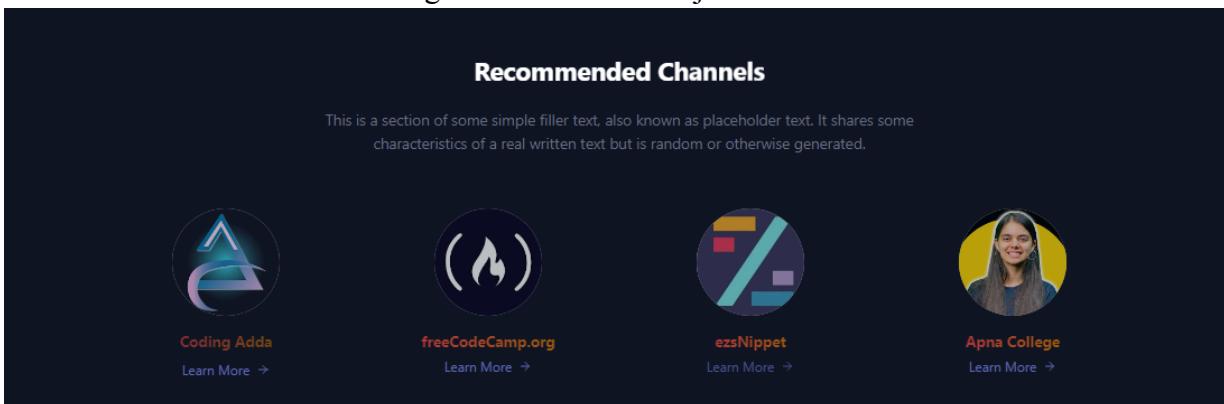


Figure 4.18 Recommended Channels Links

The screenshot shows the Firebase Storage console for a project named 'ResumeDjango'. The left sidebar includes options for Project Overview, Storage, Firestore Database, Realtime Database, and other services like Extensions and Release Monitor. The Storage section is active, showing a list of files under the path 'gs://resumedjango.appspot.com/templateresume'. The list includes various PDF files with details like size, type, and last modified date.

Name	Size	Type	Last modified
android-developer-1559034496.pdf	243.29 KB	application/pdf	Feb 8, 2024
blue professional modern CV resume.pdf	299.7 KB	application/pdf	Feb 4, 2024
data-scientist_JOS1.pdf.pdf	72.56 KB	application/pdf	Apr 3, 2024
data-scientist_Vismay-Malviya-Resume.pdf.pdf	59.26 KB	application/pdf	Mar 5, 2024
data-scientist_android-developer-1559034496.pdf.pdf	243.29 KB	application/pdf	Apr 2, 2024
data-scientist_data-scientist-1559725114.pdf.pdf	243.83 KB	application/pdf	Mar 6, 2024
project-manager_kishan resume.pdf.pdf	55.15 KB	application/pdf	Mar 5, 2024
software-engineer_Vismay-Malviya-Resume.pdf	59.26 KB	application/pdf	Mar 5, 2024
software-engineer_Vismay-Malviya-Resume.pdf.pdf	59.26 KB	application/pdf	Mar 5, 2024
software-engineer_data-scientist-1559725114.pdf.pdf	243.83 KB	application/pdf	Mar 6, 2024

Figure 4.19 Firebase Storage

4.2 Proposed system versus existing system

The below illustrated table explains the key points of difference between the existing system and our proposed system i.e. LogiPlacement. The parameters of differentiation are – Use of Algorithm, Performance, support for mobile devices, Accuracy, Prediction Time, Evaluation. These parameters serve the actual purpose of comparing what new implementations are being carried out in our innovative project, LogiPlacement. Comparison between existing system and proposed system “LogiPlacement” is shown in table 4.2.

Table 4.2 – Comparison between existing and proposed system.

Parameter	Existing System	Logi Placement
Use of Algorithm	Mostly Classification used	Regression has been Used
Performance	Provide the result in Yes or No	Provide the result in Percentage
Support for Mobile device	Doesn't have a mobile app based approach	Users can easily predict the result through mobile.
Accuracy	Doesn't Provide the Accuracy	Provide the Accuracy in Percentage.
Prediction Time	Less time	Less time
Evaluation	It is used to predict and provide result	After the result we provide Roadmaps.

Conclusion

"LogiPlacement" stands as a crucial response to the modern challenge of career planning and progression. The intricate dynamics of an ever-evolving job market, coupled with the vast array of career choices, often leave individuals feeling uncertain and overwhelmed. This project offers a much-needed solution, aiming to simplify career planning complexities. "LogiPlacement" empowers students and professionals with a structured approach to explore career paths, align their learning experiences with professional objectives, and craft compelling resumes. It bridges the gap between education and industry demands, providing valuable insights and personalized recommendations for career advancement. Ultimately, "LogiPlacement" strives to equip individuals with the clarity and confidence they need to navigate their career journeys successfully in our rapidly changing professional landscape.

Appendix

1. Visual Studio Code

Microsoft Visual Studio Code is a free and open-source source code editor developed by Microsoft. It supports multiple programming languages, including C++, C#, Java, Python, JavaScript, TypeScript, HTML, CSS, and many more. Visual Studio Code has several useful features for developers, including the ability to debug and refactor code, code completion, Git integration, extension support, and a built-in terminal. It is available on multiple platforms, including Windows, macOS, and Linux. Additionally, Visual Studio Code has a large and active community of users and developers who create and maintain extensions, themes, and other resources to enhance the editor's functionality and customization options. Overall, Visual Studio Code is a powerful and versatile tool for developers of all levels and backgrounds.

2. StarUML

StarUML is a software modeling tool used for creating UML (Unified Modeling Language) diagrams. It is a free and open-source software that supports all the standard UML diagrams, including class, use case, sequence, state, and activity diagrams. In addition to UML diagrams, StarUML also supports a variety of other modeling languages and notations, including ER (Entity-Relationship) diagrams and DFD (Data Flow Diagram) diagrams.

3. Python 3.5

Python is a general-purpose interpreted, interactive, object-oriented, and high-level programming language. It was created by Guido van Rossum during 1985- 1990. Like Perl, Python source code is also available under the GNU General Public License (GPL). Python is an easy to learn, powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms.

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Mr.Kishan Ukani(34)

Mr. Krish Devani(68)

Mr.Tanish Kini (72)

Mr.Pardeshi Jaiswar(73)

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