**A Mini Project Report On**

# RESUME ANALYZER

***Submitted to partial fulfillment of the requirements for the award of the degree of***

### BACHELOR OF TECHNOLOGY

**in**

### COMPUTER SCIENCE AND ENGINEERING

**By**

### A. NIDHI (20911A0507)

**B. SAIKRISHNA (20911A0509)**

### B. ADITYA (20911A0510)

**SK. AFEEF UR RAHMAN (20911A0553)**

**Under the Guidance of Dr. RAVI MATHEY Associate. Professor**

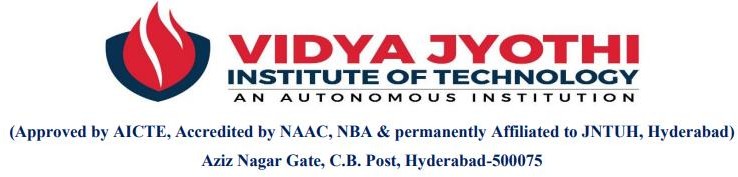
Department of Computer Science and Engineering

# VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

**(An Autonomous Institution)**

**(Approved by AICTE, Accredited by NAAC, NBA & permanently Affiliated to JNTUH, Hyderabad) Aziz Nagar Gate, C.B. Post, Hyderabad-500075**

**2023-2024**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

# CERTIFICATE

This is to certify that the project report titled “**ONLINE VOTING SYSTEM**” is being submitted by **A. NIDHI (20911A0507), B. SAIKRISHNA (20911A0509), B. ADITYA (20911A0510) , SK. AFEEF UR RAHMAN (20911A0553)** in partial fulfillment for the award of the Degree of Bachelor of Technology in **Computer Science and Engineering,** is a record of bonafide work carried out by them under my guidance and supervision. These results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma.

##### Internal Guide Head of Department

Dr. RAVI MATHEY Dr. D Aruna Kumari

Associate. Professor Professor

**External Examiner**

# DECLARATION

##### We, A. NIDHI, B. SAIKRISHNA, B. ADITYA, SK. AFEEF UR RAHMAN. Hereby declare that the project entitled, “RESUME ANALYZER” submitted for the degree of Bachelor of Technology in Computer Science and Engineering is original and has been done by us and this work is not copied and submitted anywhere for the award of any degree.

|  |  |  |
| --- | --- | --- |
| **Date:** | 1. **NIDHI** | **(20911A0507)** |
| **Place: Hyderabad** | 1. **SAIKRISHNA** | **(20911A0509)** |
|  | **B. ADITYA** | **(20911A0510)** |
|  | **SK. AFEEF UR RAHMAN** | **(20911A0553)** |

# 

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|  |  |
| --- | --- |
| **A. NIDHI** | **(20911A0507)** |
| **B. SAIKRISHNA** | **(20911A0509)** |
| **B. ADITYA** | **(20911A0510)** |
| **SK. AFEEF UR RAHMAN** | **(20911A0553)** |

# ABSTRACT

**RESUME ANALYZER**

This resume analyzer is a web application built with Streamlit, PyResParser, PDFMiner3, Pandas, Pafy, Plotly, PyMySQL, Streamlit-Tags, Pillow, YouTube-DL, NLTK, and Spacy. It allows users to upload and analyze their resumes, and provides a summary of the key skills and experience listed in the resume. The analyzer also provides a comparison of the resume to other resumes in the same field, and identifies areas where the resume could be improved.

The analyzer works by first using PDFMiner3 to extract the text from the resume. The text is then parsed using PyResParser to identify the key skills and experience listed in the resume. The analyzer uses NLTK to extract named entities from the resume, such as companies, organizations, and skills. The analyzer also uses Spacy to identify the parts of speech in the resume, which helps to identify the context of the named entities.

Once the analyzer has identified the key skills and experience listed in the resume, it compares the resume to other resumes in the same field. The analyzer uses a variety of factors to compare the resumes, such as the number of years of experience, the types of skills listed, and the companies and organizations listed. The analyzer then identifies areas where the resume could be improved, such as by adding additional keywords or skills.

The analyzer provides a summary of the key skills and experience listed in the resume, as well as a comparison of the resume to other resumes in the same field. The analyzer also identifies areas where the resume could be improved. The analyzer's insights can help users to improve their resumes and make them more competitive in the job market.

To use the analyzer, users simply need to upload their resume to the web application. The analyzer will then process the resume and provide a summary of the key skills and experience listed in the resume, as well as a comparison of the resume to other resumes in the same field. The analyzer will also identify areas where the resume could be improved.

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# CHAPTER-1

# INTRODUCTION

Creating an impactful resume is a critical step in the job search process. A well-crafted resume serves as your personal marketing tool, designed to showcase your skills, qualifications, and experience to potential employers. It is a concise yet comprehensive document that presents your professional story, highlighting your unique value and suitability for a particular job or career path. In today's competitive job market, having a stellar resume can make all the difference in securing interviews and ultimately landing your dream job.

At its core, a resume serves several essential purposes. First and foremost, it acts as a snapshot of your professional background, giving employers a quick overview of your qualifications. Secondly, it provides a platform for you to demonstrate your achievements and accomplishments in previous roles. Additionally, a resume serves as a tool for employers to evaluate your suitability for a specific job opening, enabling them to identify candidates who possess the right skill set and experience.

A well-structured resume comprises several key components, each serving a specific purpose in showcasing your qualifications and suitability for a job. It begins with your contact information, featuring your name, phone number, email address, and optionally, your LinkedIn profile or personal website. Following this is a concise summary or objective statement, summarizing your career goals and key qualifications. The heart of your resume is the "Professional Experience" section, which details your work history, responsibilities, and achievements in reverse chronological order. The "Education" section highlights your academic background, including degrees earned and institutions attended. A "Skills" section lists your relevant technical and soft skills. If applicable, include a "Certifications and Training" section. Notable accomplishments or awards can be showcased in an "Achievements and Awards" section. Additionally, you may include a "Volunteer Work or Extracurricular Activities" section to demonstrate your broader interests and commitment. While not typically included on the resume itself, you should have a list of professional references available upon request.

One critical aspect of resume writing is customization. Each job application is unique, and your resume should be tailored to align with the specific job description and the company's culture and values. This customization involves emphasizing relevant skills and experiences that directly relate to the job you're seeking.

Creating a resume that effectively communicates your qualifications can be a challenging task. Job seekers often struggle with finding the right balance between providing enough detail to showcase their abilities and keeping the document concise and easy to read. Additionally, it can be challenging to decide which information to include and which to omit, as well as how to format the document for maximum impact.

Creating a resume that effectively communicates your qualifications can be a challenging task. Job seekers often struggle with finding the right balance between providing enough detail to showcase their abilities and keeping the document concise and easy to read. Additionally, it can be challenging to decide which information to include and which to omit, as well as how to format theIn recent years, technology has played a significant role in the recruitment process, and one valuable tool that has emerged is the resume analyzer. A resume analyzer is a software application designed to assist job seekers in optimizing their resumes for applicant tracking systems (ATS) and human reviewers. ATS is used by many employers to filter and rank resumes based on specific keywords and criteria.

Resume analyzers use algorithms to assess various aspects of your resume, including its content, formatting, and relevance to the job description. These tools provide feedback and suggestions to improve your resume's chances of passing through ATS and catching the attention of hiring managers.

In this extensive introduction, we have explored the fundamental importance of a resume in the job search process, its key components, the need for customization, the challenges job seekers face in resume writing, and the role of resume analyzers in helping candidates optimize their resumes for success in today's competitive job market. A well-crafted resume and the intelligent use of resume analyzer tools can be the key to opening doors to new career opportunities and ultimately landing your desired job document for maximum impact.

# CHAPTER-2

# LITERATURE SURVEY

A literature survey on resume analyzers reveals a growing body of research and development in this field. Resume analyzers, also known as resume parsing or resume screening systems, are designed to streamline the recruitment process by automatically extracting and analyzing information from resumes to match candidates with job openings. Here is an overview of key findings from the literature:

1. \*\*Role in Modern Recruitment\*\*:

- Many studies highlight the increasing importance of resume analyzers in modern recruitment due to the high volume of job applications received by organizations. They help recruiters save time and improve the efficiency of candidate selection.

2. \*\*Parsing Techniques\*\*:

- Research explores various parsing techniques used in resume analyzers, including rule-based parsing, machine learning, and natural language processing (NLP) methods. Machine learning and NLP techniques are gaining prominence for their ability to handle unstructured data effectively.

3. \*\*ATS Integration\*\*:

- Integration with Applicant Tracking Systems (ATS) is a common theme in the literature. ATS are widely used by companies to manage job applications. Effective resume analyzers must be compatible with these systems to ensure seamless candidate screening.

4. \*\*Data Extraction\*\*:

- Studies discuss techniques for extracting specific information from resumes, such as candidate contact details, work experience, skills, education, and certifications. NLP plays a crucial role in identifying and categorizing this information accurately.

5. \*\*Keyword Matching\*\*:

- Keyword matching is a fundamental aspect of resume analyzers. Research emphasizes the importance of aligning keywords in resumes with those mentioned in job descriptions to improve the accuracy of candidate-job matching.

6. \*\*Semantic Analysis\*\*:

- Some studies delve into semantic analysis, which goes beyond keyword matching to understand the context and meaning of words and phrases in resumes and job descriptions. This approach enhances the precision of matching.

7. \*\*Bias and Fairness\*\*:

- A growing concern in the field of resume analyzers is the potential for bias in the screening process. Research explores methods to mitigate bias and ensure fairness in candidate selection, addressing issues related to gender, race, and age.

8. \*\*User Experience\*\*:

- The user experience of recruiters and job seekers is also a focus of research. Studies aim to improve the usability and accessibility of resume analyzers, making them more user-friendly and effective.

9. \*\*Scalability and Efficiency\*\*:

- Scalability and efficiency are critical considerations, especially for large organizations that receive a high volume of applications. Researchers explore methods to optimize the performance of resume analyzers in handling large datasets.

10. \*\*Privacy and Data Security\*\*:

- As personal data is involved, research addresses privacy and data security concerns. Studies investigate methods to protect sensitive candidate information while still allowing effective analysis.

11. \*\*Feedback and Continuous Improvement\*\*:

- Many articles discuss the importance of feedback loops in resume analyzers. Continuous monitoring and improvement of the system's performance based on user feedback and changing recruitment needs are key areas of research.

12. \*\*Multilingual and Multimodal Analysis\*\*:

- Research in resume analyzers is expanding to accommodate multiple languages and formats, including video resumes and audio content, reflecting the evolving nature of job applications.

In conclusion, the literature on resume analyzers reflects a dynamic field driven by advancements in NLP, machine learning, and the need for more efficient recruitment processes. Researchers are working to address challenges related to bias, scalability, privacy, and user experience to develop more robust and fair resume analyzer systems. These systems are becoming indispensable tools in the modern hiring landscape, aiding recruiters in finding the right talent quickly and effectively.

# CHAPTER-3 FEASIBILITY STUDY

### Technological Sides

The technologies and libraries relevant to data analysis and Natural language processing would be used to develop this project.

### Web Technologies

In Web technologies, several technologies are used to implement Web-based applications. This is a web application built with Streamlit, PyResParser, PDFMiner3, Pandas, Pafy, Plotly, PyMySQL, Streamlit-Tags, Pillow, YouTube-DL, NLTK, and Spacy.

### Economical Side

This project will be based on free and open-source technologies and libraries that are readily available to developers and scientists, free of charge. This means that we don’t have to worry about costs related to licensing or reusing source code and that the only costs related to the project are related to the time and effort spent on developing it.

# CHAPTER-4 SYSTEM REQUIREMENTS

### EXISTING SYSTEM

##### The existing system for resume analysis typically relies on manual review and assessment by human recruiters and hiring managers. When a job applicant submits a resume, it is often processed by human resources personnel who manually scan and evaluate the document. This process is time-consuming and subject to human bias and errors. Recruiters may miss important information in resumes, and the assessment may not be standardized across all applicants. Moreover, as the volume of job applications increases, manual resume screening becomes increasingly impractical.

##### In some cases, basic keyword matching software may be used to identify specific keywords or phrases in resumes, but this approach is limited in its ability to comprehensively assess a candidate's qualifications, skills, and suitability for a position. The existing system lacks automation and efficiency, making it challenging to handle large numbers of resumes effectively.

### PROPOSED SYSTEM

##### In Proposed System , Job applicants submit their resumes through a user-friendly web interfaces. The application uses NLP algorithms to parse the resumes ,extracting critical information such as the applicant’s name, contact details, skills, qualification , and work experience

##### One of the key features of the proposed system is the automated recommendation engine. Based on the analysis of the Resume, The system suggests relevant skills and courses that the applicants can consider adding to their profile,increasing their chancesof success in the job market

### SYSTEM REQUIREMENTS

### SOFTWARE REQUIREMENTS

* + - * OS: Windows 10 and above (with any web browser)
      * Front end: Streamlit, pafy , yt-dlp
      * Back end: Python , Pandas, Pymysql, pyresparser, nltk and spacy

### HARDWARE REQUIREMENTS

### RAM: 4GB or higher

* + - * Processor: Intel i5 or above
      * Hard Disk: 4GB or above

### REQUIREMENTS DEFINITION

After the severe continuous analysis of the problems that arose in the existing system, we are now familiar with the requirement required by the current system. The requirements that the system needs are categorized into functional and non-functional requirements. These requirements are listed below:

### FUNCTIONAL REQUIREMENTS

Functional requirements specify which features or functions should be included in a system in order to satisfy client expectations and meet business needs. The functional requirements define the connection between the inputs and outputs, based on the premise. To obtain the output, all the operations that must be carried out on the input data must be specified. This includes defining the input and output data validity checks, the parameters impacted by the operations, and any additional operations required to convert the inputs into outputs. Functional requirements specify the behavior of the system for valid input and output.

### NON-FUNCTIONAL REQUIREMENTS

Non-functional requirements describe features, characteristics, and capacity of the system and they may constraints the boundaries of the proposed system.

The following are the non-functional requirements that are essential depending on the performance, cost, and control and give security efficiency and services.

Based on the above-explained non-functional prerequisites, they are as follows:

* + - * User friendly
      * The system should provide better accuracy.
      * To perform efficiently with better throughput and response time

# CHAPTER-5

# SYSTEM DESIGN

### UML Diagrams

UML diagram is designed to let developers and customers view a software system from a different perspective and in varying degrees of abstraction. UML diagrams are commonly created in visual modeling tools include. In its simplest form, a use case can be described as a specific way of using the system from a User’s (actor’s) perspective. A more detailed description might characterize a use case as:

* + - a pattern of behavior the system exhibits
    - a sequence of related transactions performed by an actor and the system
    - delivering something of value to the actor Use cases provide a means to
    - capture system requirements
    - communicate with the end users and domain experts
    - Test the system

Use cases are best discovered by examining the actors and defining what the actor will be able to do with the system. Since all the needs of a system typically cannot be covered in one use case, it is usual to have a collection of use cases. Together this use case collection specifies all the ways of using the system.

A UML system is represented using five different views that describe the system from a distinctly different perspective. Each view is defined by a set of diagrams, which is as follows.

#### User Model View

* + - This view represents the system from the user’s perspective.
    - The analysis representation describes a usage scenario from the end user’s perspective.

#### Structural model view

* + - In this model, the data and functionality come from inside the system.
    - This model view models the static structures.

#### Behavioral Model View

* + - It represents the dynamic of behavior as parts of the system, depicting the interactions of collection between various structural elements described in the user model and structural model view.

#### Implementation Model View

* + - In this, the structural and behavioral parts of the system are represented as they are to be built.

#### Environmental Model View

* + - In this, the structural and behavioral aspects of the environment in which the system is to be implemented are represented.

UML is specifically constructed through two different domains they are:

* + - UML Analysis modeling, which focuses on the user model and structural model views of the system.
    - UML design modeling, which focuses on behavioral.

### USE CASE DIAGRAM:

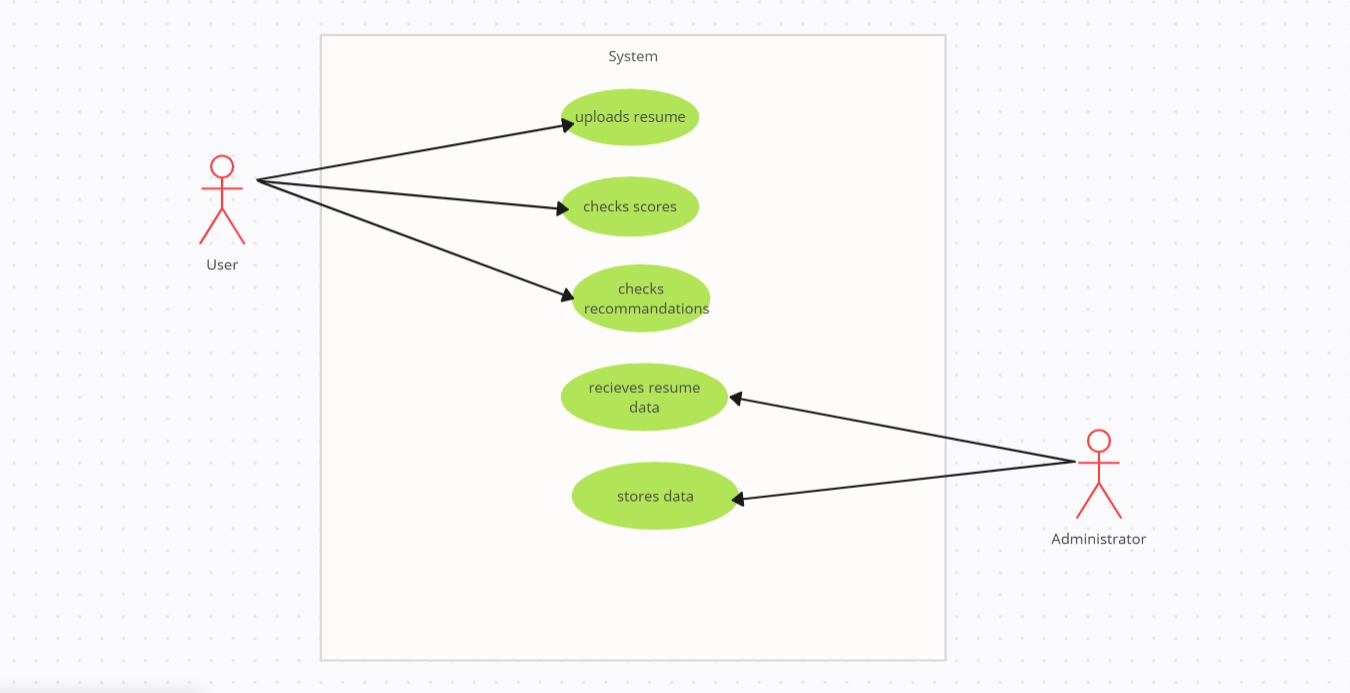


Figure. 5.1.1: Use Case Diagram

The above use case diagram represents the actors and the process in the application.

### COMPONENT DIAGRAM:

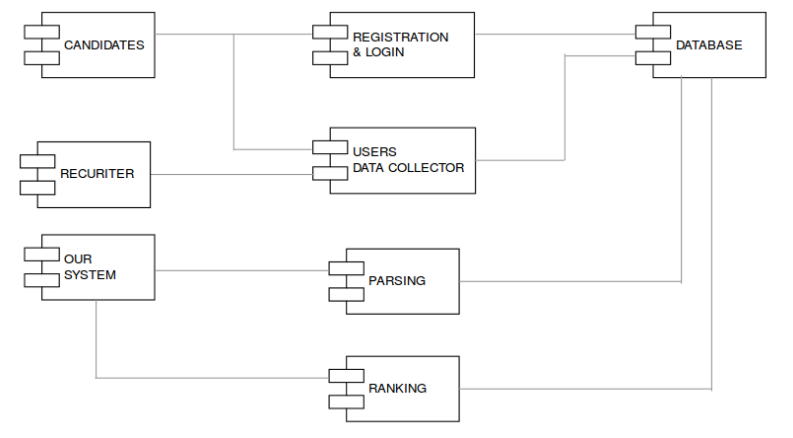


Figure. 5.1.2: Component diagram

The above component diagram describes the organization and wiring of the physical components in a system.

### ACTIVITY DIAGRAM

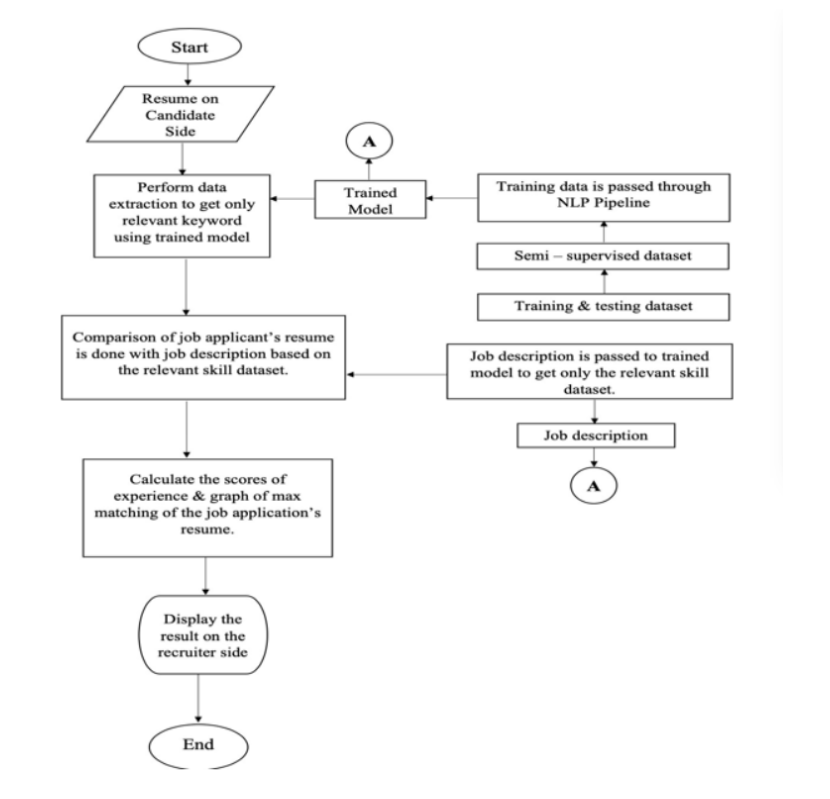


Figure. 5.1.3: Activity Diagram

The activity diagram depicts the flow from one activity to another activity.

### SEQUENCE DIAGRAM:

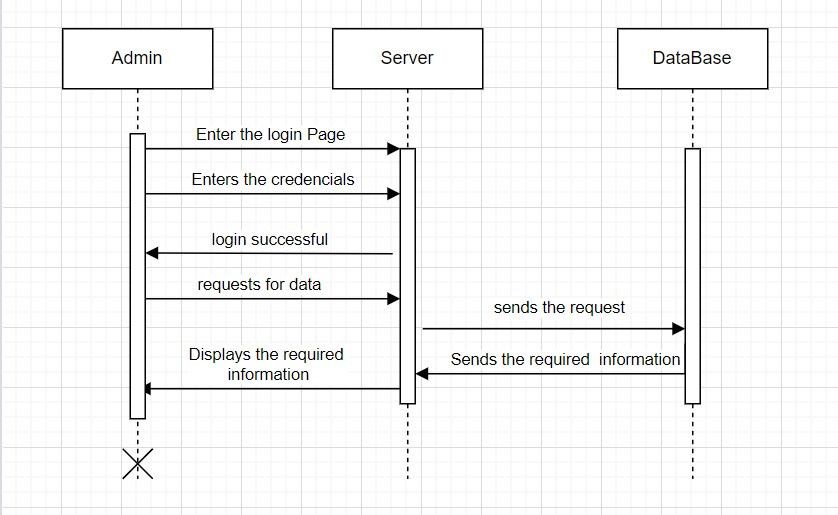


Figure. 5.1.5: Sequence Diagram

A sequence diagram is a Unified Modeling Language (UML) diagram that illustrates the sequence of messages between objects in an interaction. It consists of Admin , Server, Database.

### DATA FLOW DIAGRAM:

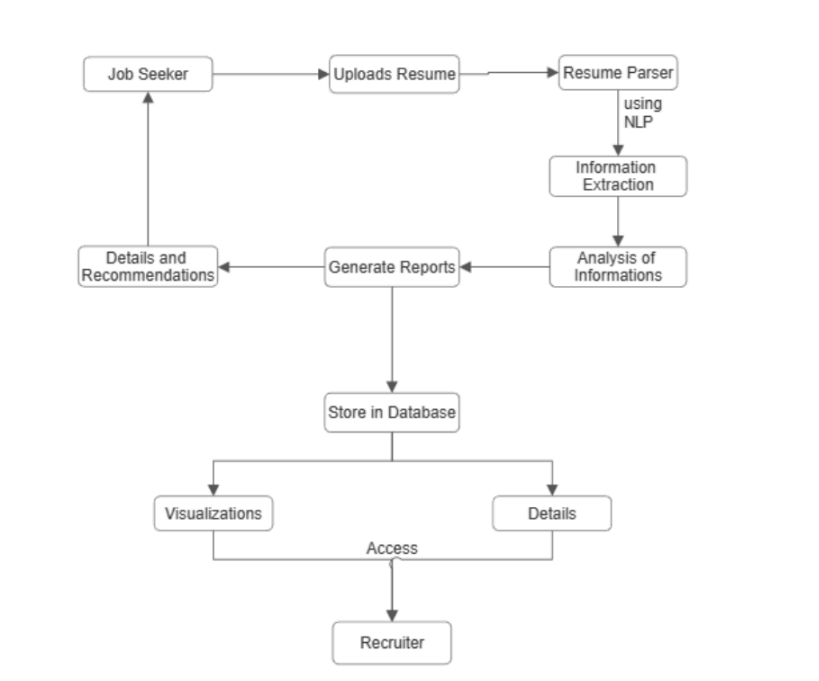
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Figure 5.1.6: Data Flow Diagram

A data flow diagram shows the way information flows through a process or system. It includes data inputs and outputs, data stores, and the subprocesses the data moves through.

# CHAPTER 6

# SOFTWARE IMPLEMENTATION

### Technologies

We probably know that computers don't communicate with each other the way that people do. Instead, computers require codes or directions. These binary codes and commands allow computers to process needed information. Every second, billions upon billions of ones and zeros are processed in order to provide you with the information you need.

### Technologies used in the application

#### Streamlit

Streamlit is an open-source Python library that simplifies the creation of interactive web applications for data science and machine learning projects. With Streamlit, users can quickly turn data scripts into shareable web apps by writing Python code, allowing for easy data visualization, dashboard creation, and user interface development without the need for extensive web development expertise. It offers a user-friendly and intuitive way to design web applications with widgets, charts, and text, making it an ideal choice for data professionals and developers looking to deploy data-driven applications effortlessly. Streamlit's simplicity and focus on rapid development have made it increasingly popular in the data science and analytics community.

#### PyResParser

As of my last knowledge update in September 2021, PyResParser doesn't appear to be a widely recognized or established library or tool in the field of software development or data science. It's possible that it's a relatively new or niche project that has emerged after my last update, or it may not be a well-known tool in the broader software development community. To learn more about PyResParser, I recommend checking the latest online resources, documentation, or community forums related to the tool to get up-to-date information on its purpose, features, and usage.

#### Pandas

#### Pandas is a popular open-source Python library for data manipulation and analysis. It provides easy-to-use data structures and data analysis tools for working with structured data, such as tabular data, spreadsheets, and databases. Pandas is built around two primary data structures: Series, which represents one-dimensional labeled arrays, and DataFrame, which is a two-dimensional labeled data structure similar to a spreadsheet or SQL table. With Pandas, users can efficiently load, clean, transform, and analyze data, making it an essential tool for data scientists, analysts, and researchers. It offers a wide range of functionalities, including data alignment, filtering, grouping, merging, reshaping, and statistical analysis, making it a versatile library for data manipulation in Python.

#### NLTK

NLTK, short for Natural Language Toolkit, is a comprehensive open-source Python library designed to facilitate the exploration, analysis, and processing of human language data. It offers a wide range of tools and resources for various natural language processing (NLP) tasks, including tokenization, stemming, part-of-speech tagging, parsing, and sentiment analysis. NLTK also includes a collection of corpora and lexical resources, making it an invaluable resource for researchers, linguists, and developers working on text analysis and NLP projects. Its user-friendly interface and extensive documentation make it a popular choice for those interested in working with human language data in Python.

#### PYMYSQL

PyMySQL is an open-source Python library that provides an interface for interacting with MySQL databases. It allows developers to connect to MySQL database servers, execute SQL queries, and manage data in a Pythonic way. PyMySQL is commonly used for building web applications, data analysis, and various other projects that involve working with MySQL databases. It offers a convenient and straightforward API for connecting to databases, executing SQL commands, and handling results, making it a useful tool for Python developers who need to work with MySQL databases in their applications. Its compatibility with Python 2 and 3 makes it a versatile choice for a wide range of projects. However, it's important to note that as of my last knowledge update in September 2021, PyMySQL has alternatives like pymysql2 and mysql-connector-python.

### Reasons for using Python pymysql

The choice of using Python and specifically the pyMySQL library in the "Resume Analyzer" application is driven by several compelling reasons. Python is renowned for its versatility and simplicity, making it an ideal programming language for web applications, data analysis, and natural language processing (NLP) tasks. PyMySQL, a Python library, offers seamless integration with relational databases like MySQL, making it a robust choice for managing and interacting with structured data.

### Learning Python is easy

Learning Python is often considered easy for several compelling reasons. Python's simplicity and readability are at the core of its approachable nature. Its clean and straightforward syntax, with minimal punctuation and a focus on indentation, makes it exceptionally beginner-friendly. Python's extensive standard library provides a wealth of pre-built modules and functions, reducing the need for writing complex code from scratch and speeding up the learning process.

### It’s Performance

While we can build an application that serves millions of pages a day on a server when we really look at the performance of the language it sucks. We are still orders of magnitude from real performance. Not only that, but since PHP is designed around a single process model our ability to share data structures or connection pool resources is left to native code libraries.

### It is an Open Source

Technically, the point is that it is an open-source project, and they release patches often.

##### It has interfaces to a large variety of library files

Python supports a large variety of library files.

##### Support available

Online support is available for using Python.

### Python

#### What is a Python File?

* Python files can contain text, HTML, CSS, JavaScript, and PHP code
* Python code is executed on the server, and the result is returned to the browser as plain HTML
* Python files have the extension ".py".

#### What Can Python Do?

* Python can generate dynamic page content.
* Python can create, open, read, write, delete, and close files on the server.
* Python can collect form data.
* Python can send and receive cookies.
* Python can add, delete, and modify data in your database.
* Python can be used to control user access.
* Python can encrypt data.
* With Python you are not limited to outputting HTML. You can output images, PDF files, and even Flash movies. You can also output any text, such as JSON , XML and Markdown.

#### Why Python?

#### ● Python runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)

#### ● Python is compatible with almost all servers used today (Apache, IIS, etc.)

#### ● Python supports a wide range of databases

#### ● Python is free. Download it from the official PHP resource: www.php.net

#### ● Python is easy to learn and runs efficiently on the server side

#### ● What's new in Python 3

#### ● Python 3 is much faster than the previous popular stable release (PHP 5.6)

#### ● Python 3 has improved Error Handling

# 6.6 Sample Code

## **6.6.1 SQL Connectivity using pymysql**

## connection = pymysql.connect(host='localhost', user='root', password='')

## cursor = connection.cursor()

## def run():

## st.title("Smart Resume Analyser")

## st.sidebar.markdown("# Choose User")

## activities = ["Normal User", "Admin"]

## choice = st.sidebar.selectbox("Choose among the given options:", activities)

## # link = '[©Developed by Spidy20](http://github.com/spidy20)'

## # st.sidebar.markdown(link, unsafe\_allow\_html=True)

## img = Image.open('./Logo/SRA\_Logo.jpg')

## img = img.resize((250, 250))

## st.image(img)

## # Create the DB

## db\_sql = """CREATE DATABASE IF NOT EXISTS SRA;"""

## cursor.execute(db\_sql)

## connection.select\_db("sra")

## # Create table

## DB\_table\_name = 'user\_data'

## table\_sql = "CREATE TABLE IF NOT EXISTS " + DB\_table\_name + """

## (ID INT NOT NULL AUTO\_INCREMENT,

## Name varchar(100) NOT NULL,

## Email\_ID VARCHAR(50) NOT NULL,

## resume\_score VARCHAR(8) NOT NULL,

## Timestamp VARCHAR(50) NOT NULL,

## Page\_no VARCHAR(5) NOT NULL,

## Predicted\_Field VARCHAR(25) NOT NULL,

## User\_level VARCHAR(30) NOT NULL,

## Actual\_skills VARCHAR(300) NOT NULL,

## Recommended\_skills VARCHAR(300) NOT NULL,

## Recommended\_courses VARCHAR(600) NOT NULL,

## PRIMARY KEY (ID));

## """

## **6.6.2 Admin side code**

## ## Admin Side

## st.success('Welcome to Admin Side')

## # st.sidebar.subheader('\*\*ID / Password Required!\*\*')

## ad\_user = st.text\_input("Username")

## ad\_password = st.text\_input("Password", type='password')

## if st.button('Login'):

## if ad\_user == 'machine\_learning\_hub' and ad\_password == 'mlhub123':

## st.success("Welcome Kushal")

## # Display Data

## cursor.execute('''SELECT\*FROM user\_data''')

## data = cursor.fetchall()

## st.header("\*User's👨‍💻 Data\*")

## df = pd.DataFrame(data, columns=['ID', 'Name', 'Email', 'Resume Score', 'Timestamp', 'Total Page',

## 'Predicted Field', 'User Level', 'Actual Skills', 'Recommended Skills',

## 'Recommended Course'])

## st.dataframe(df)

## st.markdown(get\_table\_download\_link(df, 'User\_Data.csv', 'Download Report'), unsafe\_allow\_html=True)

## ## Admin Side Data

## query = 'select \* from user\_data;'

## plot\_data = pd.read\_sql(query, connection)

## ## Pie chart for predicted field recommendations

## labels = plot\_data.Predicted\_Field.unique()

## print(labels)

## values = plot\_data.Predicted\_Field.value\_counts()

## print(values)

## st.subheader("📈 \*Pie-Chart for Predicted Field Recommendations\*")

## fig = px.pie(df, values=values, names=labels, title='Predicted Field according to the Skills')

## st.plotly\_chart(fig)

## ### Pie chart for User's👨‍💻 Experienced Level

## labels = plot\_data.User\_level.unique()

## values = plot\_data.User\_level.value\_counts()

## st.subheader("📈 \*\* Pie-Chart for User's👨‍💻 Experienced Level\*\*")

## fig = px.pie(df, values=values, names=labels, title="Pie-Chart📈 for User's👨‍💻 Experienced Level")

## st.plotly\_chart(fig)

# CHAPTER-7

**RESULTS AND OUTPUT SCREENS**

### 7.1USER LOGIN PAGE:

### 

Figure. 7.1: Login Page

Login Page represents the website’s Login Interface where the user can log in.

### 7.2 User Side Output:

### 

Figure. 7.2.1: Basic Info & Skills

### 

Figure. 7.2.2: Recommendations

### Admin home page

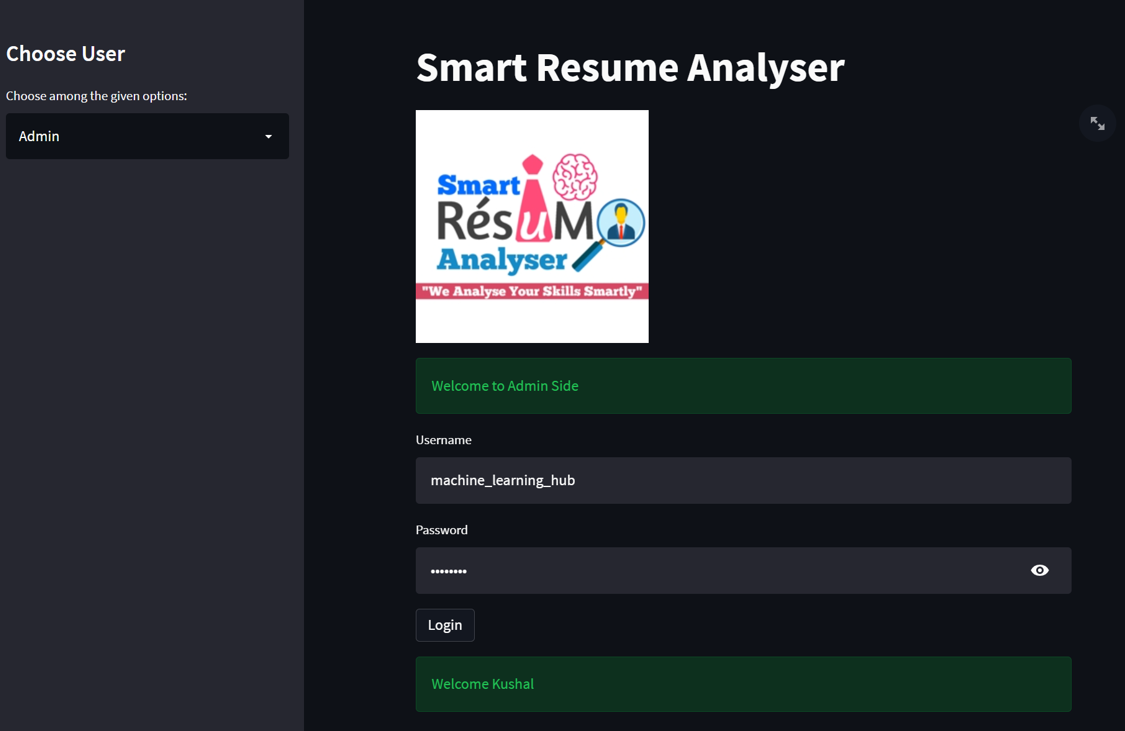


Figure. 7.3: Admin home page

### 7.4Admin Side Data

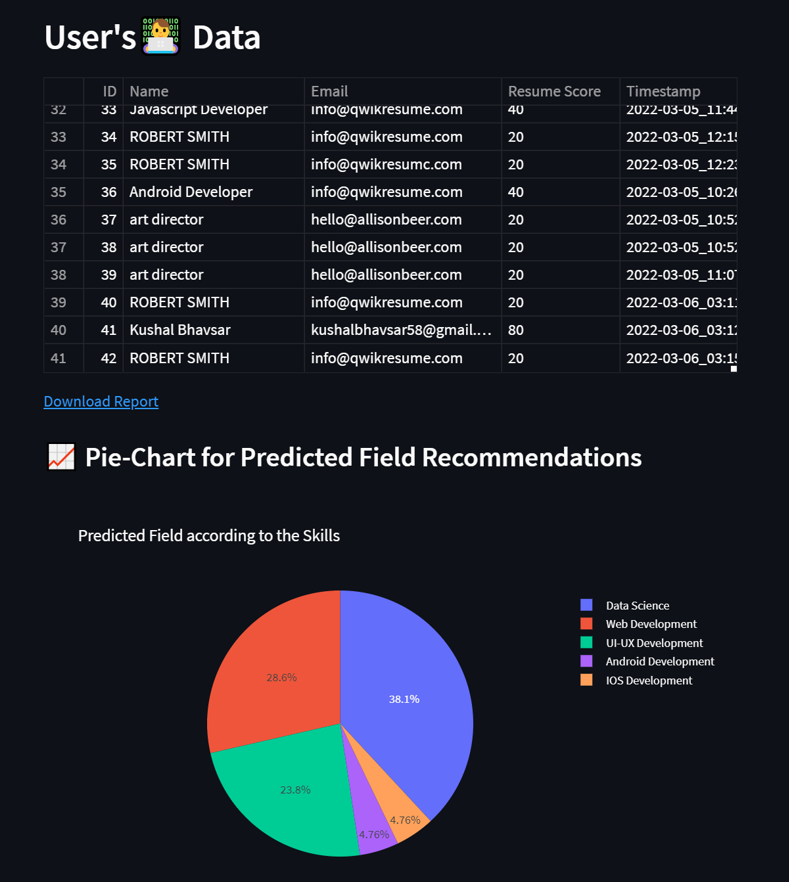
****

Figure. 7.4: Admin Side Data

# CHAPTER-8

# CONCLUSION

In conclusion, the resume analyzer presented here is a powerful tool that leverages cutting-edge technologies to assist job seekers in optimizing their career prospects. With its ability to extract, analyze, and provide personalized recommendations based on resume content, this application streamlines the job search process and empowers users to make informed decisions about skill development and career paths.

The analyzer's integration with various technologies, including natural language processing, data analysis, and database management, makes it a versatile and valuable asset for both novice job seekers and experienced professionals. Its user-friendly interface and seamless functionality enhance the overall experience, while its potential for future enhancements opens doors to even greater possibilities.

As the job market evolves, this resume analyzer stands as a testament to the potential of technology in assisting individuals in their career journeys. Whether it's suggesting relevant skills, recommending courses, or offering interview tips, this tool is designed to provide valuable insights and guidance, ultimately helping users achieve their professional aspirations.

In a world where every edge counts in the competitive job market, the resume analyzer emerges as a valuable ally, helping individuals put their best foot forward on their career path. Its future looks promising, with the potential for continued growth and innovation, ensuring its relevance and impact for years to come.

# CHAPTER-8

# FUTURE ENHANCEMENT

1. \*\*Advanced AI-Based Recommendations:\*\* Implementing more advanced artificial intelligence algorithms for skill recommendations based on the resume content and industry trends. This could involve natural language processing techniques to better understand the context and relevance of skills.

2. \*\*Integration with Job Portals:\*\* Integrating the analyzer with job portals to provide users with real-time job listings that match their skills and preferences. This would enhance the user experience by offering immediate opportunities based on their analyzed resume.

3. \*\*Multi-Format Support:\*\* Expanding the analyzer's capability to process resumes in various formats, including DOCX, TXT, and online profiles such as LinkedIn. This would make it even more versatile and user-friendly.

4. \*\*Interview Preparation:\*\* Adding a feature for interview preparation, including mock interview sessions, interview question banks, and feedback on interview performance. This would provide a holistic career support system.

5. \*\*User Dashboard:\*\* Creating personalized user dashboards where users can track their career progress, view recommendations, and access resources for skill development and job hunting.

6. \*\*Mobile Application:\*\* Developing a mobile app version to make the resume analyzer accessible on smartphones and tablets, increasing its convenience and reach.

7. \*\*Feedback Mechanism:\*\* Implementing a feedback system where users can rate the quality of recommendations and provide suggestions for improvement, allowing continuous refinement of the service.

# CHAPTER 9

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