

1.ABSTRACT

The AI-powered Resume Builder and Analyzer is a cutting-edge software application designed to assist job seekers in creating optimized resumes and analyzing existing ones, leveraging advanced Artificial Intelligence (AI) and Natural Language Processing (NLP) techniques. The project aims to streamline the resume-building process, ensure ATS (Applicant Tracking System) compatibility, and provide detailed feedback to improve the effectiveness of resumes in the competitive job market. The builder enables users to input their personal details, education, work experience, skills, certifications, and other relevant data in a structured format. Based on the provided information, the system uses machine learning models to suggest additional content, such as industry-specific keywords, skill sets, and accomplishments that should be included to enhance the resume. Users can choose from various professional templates, and the system will automatically populate these with the user's data, ensuring a polished and consistent look. The technologies used in the frontend are HTML, CSS, JS. In the backend, Python is used, and the database is MySQL.

2.INTRODUCTION

In today's fast-paced and competitive job market, a well-crafted resume is a critical tool in securing employment opportunities. However, many job seekers find it challenging to create a resume that effectively highlights their skills, experience, and qualifications while adhering to industry standards and expectations. The task of formatting a resume, ensuring the correct use of keywords, and presenting achievements in a compelling manner can be time-consuming and often requires significant trial and error.

Despite the availability of various resume-building tools, many of these platforms lack personalized guidance and fail to leverage modern technology to provide real-time, actionable feedback on a resume's effectiveness. In this context, an AI-powered solution can significantly streamline the process, ensuring that candidates have access to a smarter, more efficient way to create and optimize their resumes.

By using the AI-powered Resume Builder and Analyzer, job seekers can greatly improve their chances of standing out in a crowded job market. The tool eliminates much of the guesswork in resume writing, making it easier to create a document that not only highlights a candidate's qualifications but also appeals to modern hiring algorithms used by many companies. With the increasing prevalence of applicant tracking systems (ATS), which scan resumes for keywords before they are even seen by a human recruiter, it is critical for job seekers to optimize their resumes for these systems.

In summary, this project aims to revolutionize the traditional process of resume building by incorporating cutting-edge AI technologies to create a platform that is not only efficient but also intelligent. By offering both resume-building and analysis capabilities, this system enables users to produce professional, polished, and optimized resumes that align with current hiring trends. This tool represents a significant advancement in the way job seekers approach resume writing, empowering them to present themselves more effectively and confidently in the job market.

2.1 Existing system:

The existing system is manual resume builder and analysis. Job seekers create resumes manually using word processing software like Microsoft Word or Google Docs. Hiring managers and recruiters manually review resumes to identify relevant skills, experience, and qualifications.

Manual resume writing and analysis are time-consuming and labor-intensive. Resumes are often unstructured and lack standardization, making it difficult for hiring managers to compare candidates. Manual resume analysis can be prone to bias and inaccuracy, leading to qualified candidates being overlooked. Job seekers often receive limited feedback on their resumes, making it difficult to improve.

Disadvantages of existing System:

- Time consuming and labor intensive
- Lack of standardization
- Prone to Bias and Inaccuracy
- Limited feedback for job seekers
- Inconsistent quality and content

2.2 Proposed System:

The AI-Powered Resume Builder and Analyzer is designed to address the limitations and inefficiencies of the existing manual system. The AI-Powered Resume Builder will offer a guided, user-friendly platform to help job seekers create personalized resume. Users can preview their resume in real-time and download it once it is complete.

3.SYSTEM REQUIREMENTS SPECIFICATION

3.1 FUNCTIONAL REQUIREMENTS

3.1.1 Hardware Requirements:

Processor	: Intel-Core i3 or higher
Hard Disk	: 256 GB
RAM	: 8 GB.

3.1.2 Software Requirements:

Operating system	: Windows 10
Python version	: Python 3.8
Web browser	: Google Chrome.

4.SYSTEM DESIGN

4.1 UML Diagrams Introduction

The unified modeling language (UML) is general purpose, developmental modeling language in the field of software engineering that is intended to provide a standard way to visualize the design of a system. The unified modeling language (UML) offers a way to visualize a system's architecture blueprints in a diagram (see image), including elements such as any activities individual components of the system and how they can interact with other software components. How the system will run, how entities interact with others components and interfaces) external user interface. Although originally intended solely for object-oriented design documentation, the unified modeling language (UML) has been extended to cover a larger set of documents and been found useful in many contexts. The unified modeling language allows the software engineer to express an analysis model using the modeling notation that is governed by a set of syntactic semantic and pragmatic rules.

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

User Model View

- i.This view represents the system from the user's perspective
- ii. The analysis representation describes a usage scenario from the end-user's view.

Structural Model View

- i.In this model the data and functionality are arrived from inside the system
- ii.This model view models the static structures

Behavioral Model View

It represents the dynamic of behavioral 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 as parts of the system are represented as they are

Environmental Model

In these the structural and behavioral aspects of the environment in which UML is specifically constructed through two different domains they Are:

The system is to be implemented are represented UML analyses modeling this focuses on. The user model and structural model views of the system.

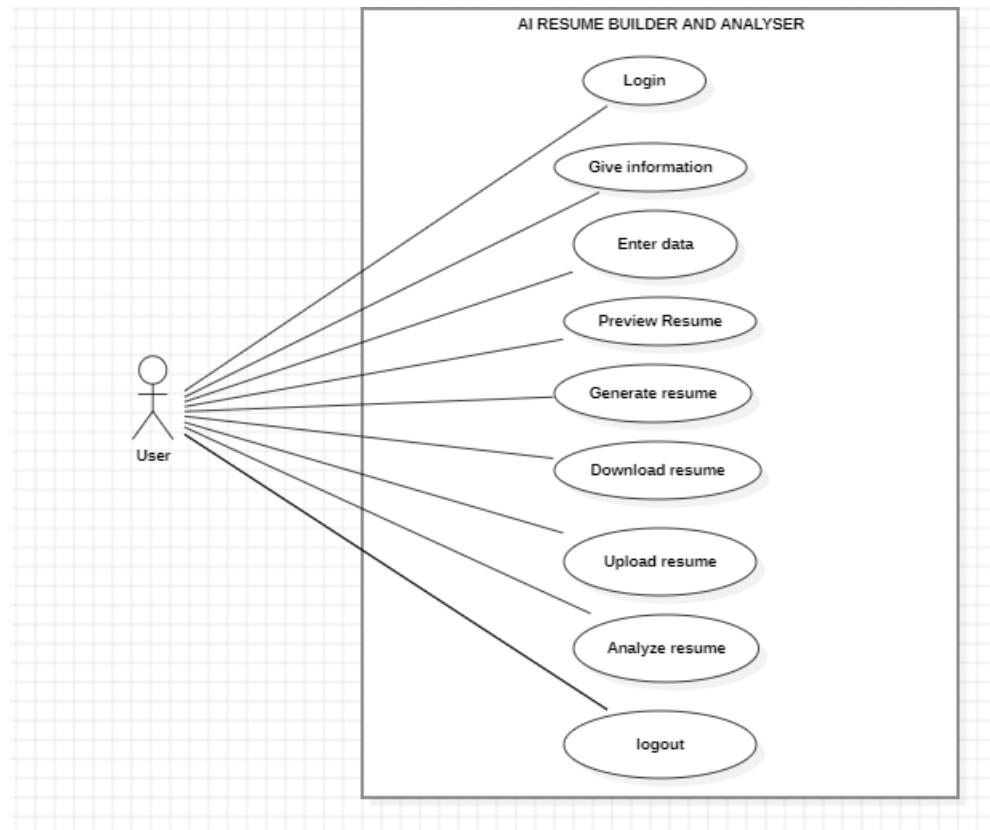
UML design modeling, which focuses on the behavioral modeling, implementation modeling and environmental model views. Use case Diagram represent the functionality of the system from a user's point of view Use case are used during requirements elicitation and analysis to represent the functionality of the system. Use cases focus on the behavior of the system from external point of view. There are four types of UML diagrams for this project namely

- Use case diagram
- Sequence diagram
- Activity diagram

4.2.UML Diagrams

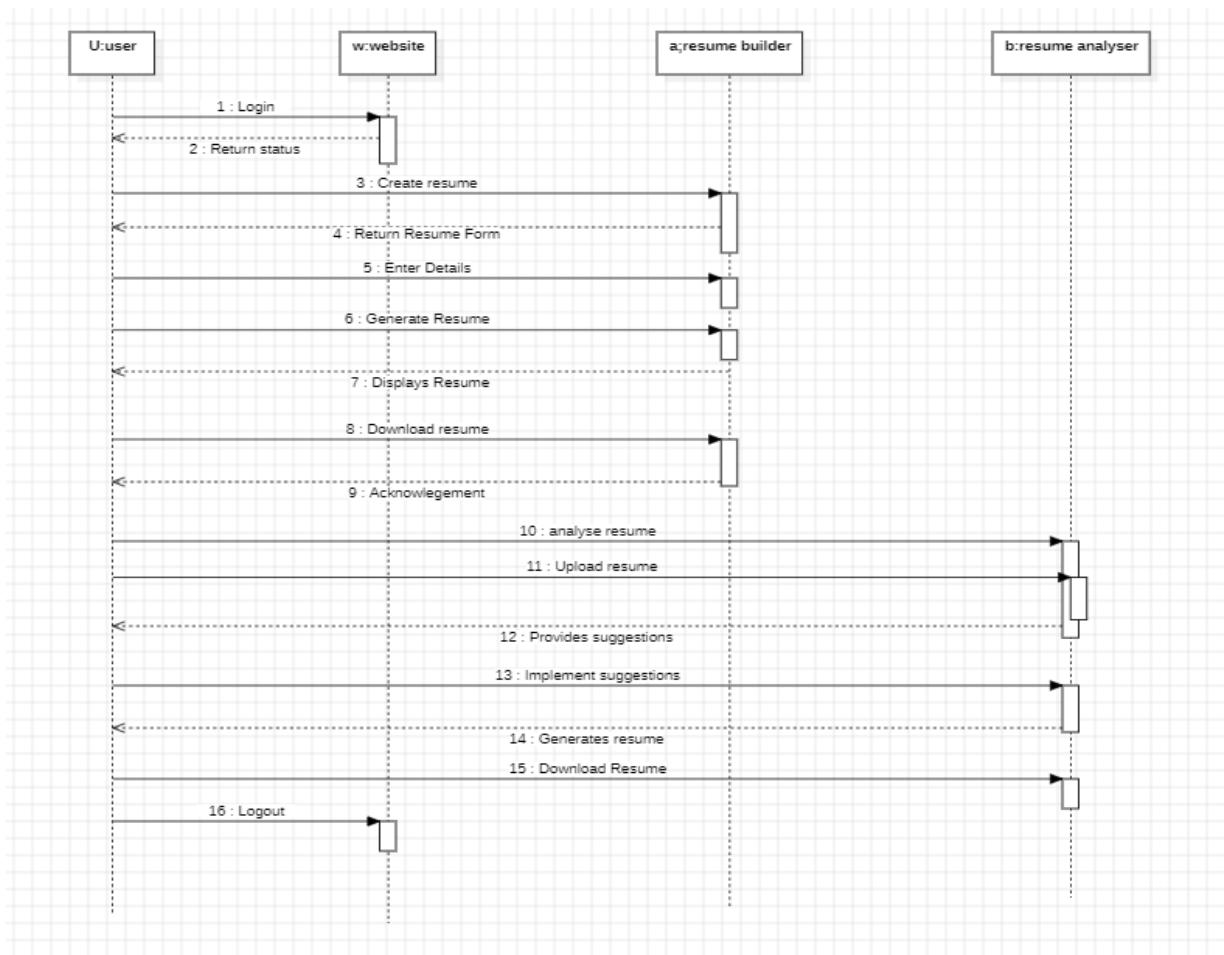
4.2.1Use case diagram :

Use case diagrams are a set of use cases, actors and their relationships. They represent the use case view of a system. A use case represents a particular functionality of a system. So, use case diagram is used to describe the relationship among the functionalities and their internal external controllers. These controllers are known as actors.



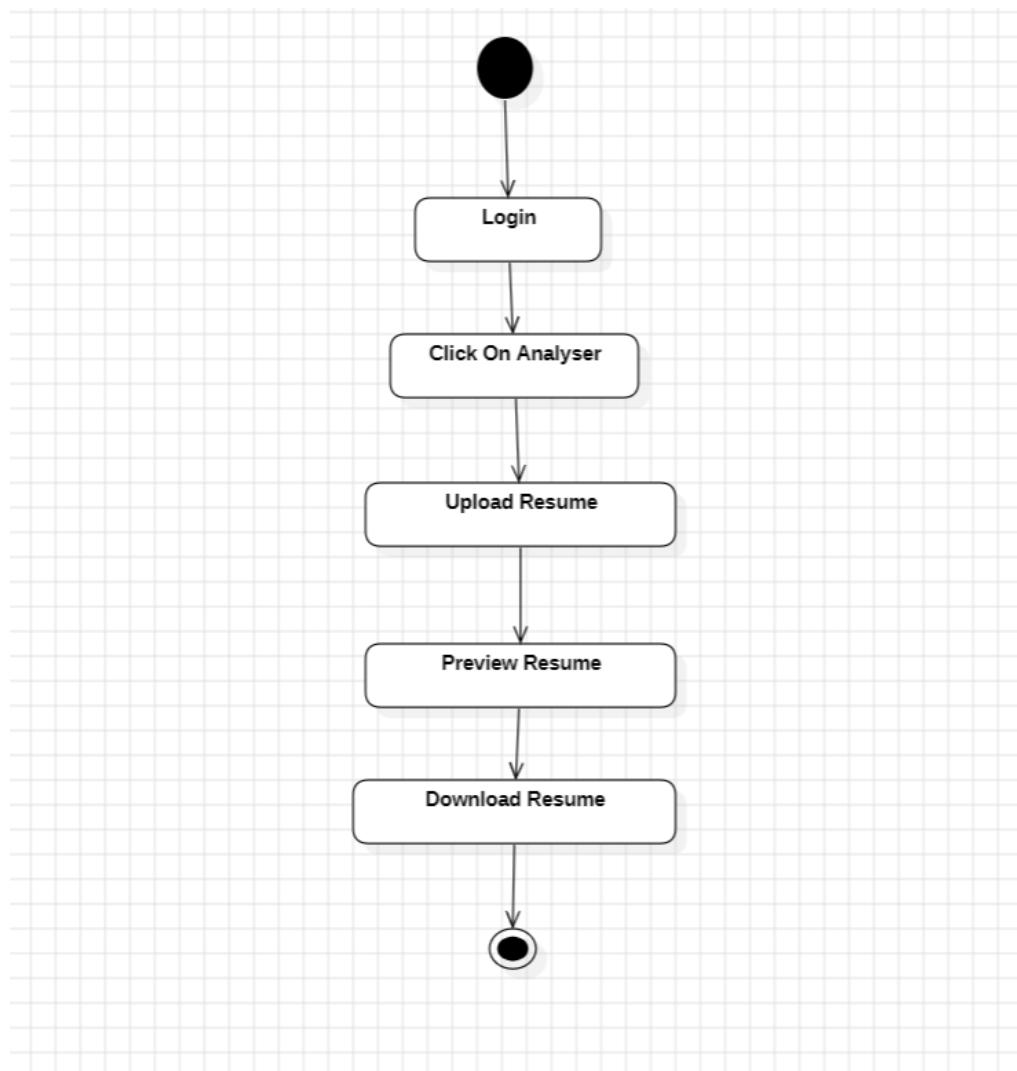
4.2.2 Sequence diagram :

A sequence diagram is an interaction diagram. From the name it is clear that the diagram deals with some sequences, which are the sequence of messages flowing from one object to another. Interaction among the components of a system is very important from implementation and execution perspective. So sequence diagram is used to visualize the sequence of calls in a system to perform aspecific functionality.



4.2.2 Activity diagram of System:

Activity diagram describes the flow of control in a system. So it consists of activities and links. The flow can be sequential, concurrent or branched activities are nothing but the functions of a system. Numbers of activity diagrams are prepared to capture the entire flow in a system. Activity diagrams are used to visualize the flow of control in a system. This is prepared to have an idea of how the system will work when executed in this project the activity diagram shows the flow functions/activities.



5.IMPLEMENTATION

5.1. TECHNOLOGIES TO BE USE:

HTML:

- HTML (HyperText Markup Language) is the standard language used to create and structure content on the web.
- It consists of a series of elements (tags) that define the structure and layout of web pages, such as headings, paragraphs, images, links, and forms.
- HTML provides the basic building blocks for web content, while CSS is used to style the content and JavaScript adds interactivity.

CSS :

- CSS (Cascading Style Sheets) is a stylesheet language used to control the look and feel of a web page.
- It allows you to style HTML elements by defining properties such as colors, fonts, spacing, and layout. CSS helps separate the structure (HTML) from the design, making web development more efficient.
- CSS is used to style the structure of web pages defined by HTML. It controls the presentation of elements on a page, such as layout, colors, fonts, spacing, and positioning

Advantages of CSS:

Here are some key **advantages of CSS**:

Separation of Content and Design: CSS separates the content (HTML) from the presentation (style), making it easier to maintain and update the design without changing the HTML structure.

Faster Load Time: Since the style is stored in separate CSS files, browsers can cache these files, reducing the amount of data that needs to be downloaded on subsequent page visits, speeding up page loading.

Better Page Structure: CSS enhances the ability to create clean, organized, and structured layouts that are easier to manage and scale.

JAVASCRIPT:

JavaScript is a high-level, dynamic programming language primarily used to add interactivity and functionality to websites. It runs in the browser, enabling web pages to respond to user actions, manipulate content, and interact with external data without reloading the entire page. JavaScript is mainly used for client-side scripting, meaning it runs in the user's browser. It allows you to create interactive web pages, such as forms that validate user input, dynamic content updates, and animation.

Node.js:

Node.js is used to build web servers. Using the built-in http module, you can create a server that listens for incoming HTTP requests and responds with the necessary data.

Node.js is often used alongside frameworks like Express.js to handle routing, making it easy to map URLs to different backend logic. Express simplifies the process of creating routes, handling request methods (GET, POST, PUT, DELETE), and managing responses.

It consists of the package JSON (JavaScript Object Notation).

Use Cases of Node.js:

- Building APIs (RESTful, GraphQL)
- Real-time applications (chat apps, online gaming)
- Microservices architecture
- Server-side web applications (e.g., Express.js apps)
- Streaming services (media streaming, live data feeds)
- Data-intensive applications (IoT, real-time analytics)

Express.js:

Express.js is a lightweight and flexible Node.js web application framework designed to build backend applications, including web servers and APIs. It is one of the most popular frameworks for Node.js, as it simplifies and streamlines the process of creating server-side applications.

Express makes routing simple by allowing you to define routes based on the HTTP request type (GET, POST, PUT, DELETE, etc.).

MongoDB:

It is widely used in web development, especially when working with Node.js and frameworks like Express.js. MongoDB is highly scalable, flexible, and well-suited for applications that require handling large amounts of unstructured or semi-structured data.

Bootstrap:

Bootstrap is a popular open-source framework used to design and build responsive and mobile-first websites and web applications. It provides a collection of CSS and JavaScript components to help developers quickly create modern and visually appealing websites.

Key features of Bootstrap:

- Pre-built components
- Grid System
- CSS Styles
- JavaScript Plugins
- Customizable

Acknowledgements

The VRS Codes: For the development and maintenance of this project.

Bootstrap: For providing responsive design components.

Node.js & Express.js: For backend development.

MongoDB: For database solutions.

5.2. CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Resume Creator</title>
    <link rel="stylesheet" href="styles.css">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap" rel="stylesheet">
        <script src="https://kit.fontawesome.com/a076d05399.js" crossorigin="anonymous"></script>
</head>
<body>

    <!-- Navigation Bar -->
    <nav>
        <div class="navbar-left">
            <span class="logo">Resume Builder</span>
        </div>
        <div class="navbar-right">
            <a href="index.html" class="nav-link">Home</a>
            <a href="analyser.html" class="nav-link">Analyzer</a>
            <a href="aboutUs.html" class="nav-link">About us</a>
        </div>
    </nav>

    <!-- Main Screen -->
    <section class="main-screen">
        <div class="content">
            <div class="text-container">
                <h1 class="title">Create Your <span class="analyze">Professional</span> Resume</h1>
                <p class="subtitle">Build an attractive resume in just a few minutes with our easy-to-use resume builder.</p>
                <button class="build-button" onclick="window.location.href='build.html'">
                    <i class="fas fa-pencil-alt"></i> Start Building
                </button>
            </div>
            <div class="image-container">
                
            </div>
        </div>
    </section>

    <!-- Footer -->
```

```

<footer>
    <p class="footer-content">© 2025 prutviraj</p>
</footer>

</body>
</html>

```

Login html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
    <title>Login / Register</title>
    <link rel="stylesheet" href="login.css">
</head>
<body>
    <div class="container">
        <div class="form-box" id="form-box">
            <h2 id="form-title">Login</h2>
            <form id="loginForm" onsubmit="return handleLogin(event)">
                <input type="text" id="login-username" placeholder="Username" required>
                <input type="password" id="login-password" placeholder="Password" required>
                <button type="submit">Login</button>
                <p class="toggle-text">Don't have an account? <span onclick="toggleForm()">Register here</span></p>
            </form>
        </div>
        <form id="registerForm" style="display: none;" onsubmit="return handleRegister(event)">
            <input type="text" id="reg-username" placeholder="Username" required>
            <input type="email" id="reg-email" placeholder="Email" required>
            <input type="password" id="reg-password" placeholder="Password" required>
            <button type="submit">Register</button>
            <p class="toggle-text">Already have an account? <span onclick="toggleForm()">Login here</span></p>
        </form>
    </div>
</body></html>

```

Login.css

```

@import
url("https://fonts.googleapis.com/css2?family=Montserrat:wght@400;700&display=swap");

:root {
    --background-color: #1d1d1d;
    --navbar-color: #151414;
    --box-bg: #161b22;
    --hover-green: #49e6b2;
}

```

```
--input-bg: #262b33;
--btn-color: #2177da;
--text-color: whitesmoke;
}

body {
  background-color: var(--background-color);
  font-family: 'Montserrat', sans-serif;
  color: var(--text-color);
  margin: 0;
  padding: 0;
  display: flex;
  height: 100vh;
  justify-content: center;
  align-items: center;
}

.container {
  background-color: var(--box-bg);
  padding: 30px;
  border-radius: 12px;
  box-shadow: 0 0 15px rgba(255, 255, 255, 0.2);
  width: 100%;
  max-width: 400px;
}

h2 {
  text-align: center;
  margin-bottom: 20px;
}

form {
  display: flex;
  flex-direction: column;
}

input {
  background-color: var(--input-bg);
  border: none;
  padding: 12px;
  margin-bottom: 15px;
  color: white;
  border-radius: 6px;
  font-size: 14px;
}

button {
  background-color: var(--btn-color);
  color: white;
  border: none;
  padding: 12px;
  font-size: 16px;
}
```

```

cursor: pointer;
border-radius: 6px;
transition: background 0.3s;
}

button:hover {
  background-color: var(--hover-green);
  color: black;
}

.toggle-text {
  text-align: center;
  font-size: 14px;
  margin-top: 10px;
}

.toggle-text span {
  color: var(--hover-green);
  cursor: pointer;
  font-weight: bold;
}

```

Login.js

```

function toggleForm() {
  const loginForm = document.getElementById('loginForm');
  const registerForm = document.getElementById('registerForm');
  const title = document.getElementById('form-title');

  if (loginForm.style.display === 'none') {
    loginForm.style.display = 'flex';
    registerForm.style.display = 'none';
    title.innerText = 'Login';
  } else {
    loginForm.style.display = 'none';
    registerForm.style.display = 'flex';
    title.innerText = 'Register';
  }
}

// Simple frontend storage (use real DB/server for production)
const users = [];

function handleRegister(e) {
  e.preventDefault();
  const username = document.getElementById('reg-username').value;
  const email = document.getElementById('reg-email').value;
  const password = document.getElementById('reg-password').value;

  users.push({ username, email, password });
}

```

```

        alert("Registered successfully!");
        toggleForm();
        return false;
    }

    function handleLogin(e) {
        e.preventDefault();
        const username = document.getElementById('login-username').value;
        const password = document.getElementById('login-password').value;

        const user = users.find(u => u.username === username && u.password === password);
        if (user) {
            alert("Login successful!");
            window.location.href = "index.html"; // Replace with your main project page
        } else {
            alert("Invalid credentials!");
        }
        return false;
    }
}

```

Builder.html

```

<!DOCTYPE html>
<html lang="en">

    <head>
        <meta charset="utf-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1" />
        <link rel="shortcut icon" href="img/VMlogo.png" type="image/x-icon">
        <title>Resume Generator</title>
        <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-gH2yIJqKdNHPEq0n4Mqa/HGKIhSkIHeL5AyhkYV8i59U5AR6csBvApHHNl/vI1Bx"
        gH2yIJqKdNHPEq0n4Mqa/HGKIhSkIHeL5AyhkYV8i59U5AR6csBvApHHNl/vI1Bx"
        crossorigin="anonymous" />
        <link rel="stylesheet" href="build.css"/>
        <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-
        icons@1.3.0/font/bootstrap-icons.css" />

        <script
        src="https://cdnjs.cloudflare.com/ajax/libs/html2pdf.js/0.9.2/html2pdf.bundle.min.js"></script>
    </head>

    <body>

        <nav>
            <div class="navbar-left">

```

```

<span class="logo">Resume Builder</span>
</div>
<div class="navbar-right">
    <a href="index.html" class="nav-link">Home</a>
    <a href="analyser.html" class="nav-link">Analyzer</a>
    <a href="aboutUs.html" class="nav-link">About us</a>
</div>
</nav>

<div class="left-side">
<div id="cv-form">
    <div class="header text-center bg-dark text-light">
        <h2>Resume Form</h2>
        <h4>Your professional story starts with us!</h4>
    </div>
    <div class="container mt-3 container-form">
        <div class="row">
            <div class="col-md-6 mt-2">
                <h3>Personal Information</h3>
                <div class="from-group mt-4">
                    <label for="imgField">Select your photo *</label>
                    <input id="imgField" type="file" class="form-control" onchange="updateProfilePicture(this)" />
                </div>
                <div class="form-group mt-3">
                    <label for="namefield"> Your Name</label>
                    <input type="text" id="namefield" class="form-control" placeholder="Enter your name" />
                </div>
                <div class="form-group mt-4">
                    <label for="desired-role"> Desired Role </label>
                    <input type="text" id="desired-role" class="form-control" placeholder="Enter your Desired role ex: Web Devloper" />
                </div>
                <div class="form-group mt-2">
                    <label for="contactfield"> Your Contact No.</label>
                    <input type="number" id="contactfield" class="form-control" placeholder="Enter your Contact Number" />
                </div>
                <div class="form-group mt-3">
                    <label for="emailfield"> Your Email Id</label>
                    <input type="email" id="emailfield" class="form-control" placeholder="Enter your email id" />
                </div>
                <div class="form-group mt-3">
                    <label for="agefeild">Age:</label>
                    <input type="number" class="form-control" id="agefeild" name="age" placeholder="Enter Age" min="1" max="100">
                </div>
                <div class="form-group mt-3" id="he">
                    <label for="hobby">Hobbies:</label>

```

```

<div id="hobbyContainer">
    <div class="Hobbies">
        <input type="text" class="form-control" placeholder="ex:cricket,singing,compitative programming" id="hoby">
    </div>
    <button class="deleteButtonh" onclick="clearworkExperience(this)">delete</button>
    <div style="clear: both;"></div>
</div>
<div class="container text-center mt-2" id="addHobbyeButton">
    <button onclick="addNewHobby()" class="btn btn-warning btn-sm">
        Add another Hobby
    </button>
</div>
<div class="form-group mt-3">
    <label for="objective">Objective: </label>
    <textarea id="objective" class="form-control" placeholder="ex: Active contributor to open source projects,fostering a passion for collaborative coding and community engagement.."></textarea>
</div>
<h3>Social Link</h3>
<div class="form-group mt-2">
    <label for="githubfield">Github Link</label>
    <input type="text" id="githubfield" class="form-control" placeholder="Enter your Github Profile link" />
</div>
<div class="form-group mt-3">
    <label for="linkedinfield"> LinkedIn Link</label>
    <input type="text" id="linkedinfield" class="form-control" placeholder="Enter your Linkedin Profile link" />
</div>
<div class="form-group mt-3">
    <label for="websitefield"> Personal Website Link</label>
    <input type="text" id="websitefield" class="form-control" placeholder="Enter your Website link" />
</div>
</div>

<div class="col-md-6 mt-2">
    <h3>Professional Information</h3>
    <div class="form-group mt-2">
        <label for="skills">Technical Skills:</label>
        <div class="skill">
            <label for="languages">Programming Languages:</label>
            <input type="text" class="form-control" placeholder="ex:python,java,c,..." id="language">
            <label for="tools">Development Tools:</label>
            <input type="text" class="form-control" placeholder="ex:MySQL,Springboot,bootstrap..." id="tool">
            <label for="software">Softwares:</label>
        </div>
    </div>
</div>

```

```

        <input type="text" class="form-control" placeholder="ex:Microsoft visual studio
code,Github..." id="softwares">
    </div>
</div>
<div class="form-group mt-3" id="we">
    <label for="workexpi">Work Experience</label>
    <div id="workExperienceContainer">
        <div class="workExperience">
            <input type="text" class="form-control" roleInput" placeholder="Role"
id="workrole">
                <input type="text" class="form-control" companyInput" placeholder="company
name" id="compname">
                    <input type="text" class="form-control durationInput" placeholder="Duration ex:
2020-2021 or 1 jan 2020 - 31 dec 2021" id="wd">
            </div>
            <button class="deleteButton" onclick="clearworkExperience(this)">delete</button>
            <div style="clear: both;"></div>
        </div>
        <div class="container text-center mt-2" id="addExperienceButton">
            <button onclick="addNewExp()" class="btn btn-warning btn-sm">
                Add another experience
            </button>
        </div>
    </div>
<div class="form-group mt-2" id="Ee">
    <label for="eduexpi">Education:</label>
    <div id="eduExperienceContainer">
        <div class="eduExperience">
            <input type="text" class="form-control" clgInput" placeholder="School/College"
id="clg">
                <input type="text" class="form-control" degInput" placeholder="Degree/Course"
id="course">
                    <input type="text" class="form-control" startYearInput" placeholder="Start Year"
id="startYear">
                        <input type="text" class="form-control" endYearInput" placeholder="End Year"
id="endYear">
                    <input type="text" class="form-control" percentInput"
placeholder="CGPA/Percentage% ex:CGPA:7.2 or Percentage:90%" id="percent">
                </div>
                <button class="deleteButtons" onclick="clearEduExperience(this)">delete</button>
                <div style="clear: both;"></div>
            </div>
            <div class="container text-center mt-2" id="addEducationButton">
                <button onclick="addNewEdu()" class="btn btn-warning btn-sm">
                    Add Another Education
                </button>
            </div>
        </div>
    </div>
<div class="form-group mt-3" id="Pe">
    <label for="projdetails">Project Details:</label>
    <div id="projectDetailsContainer">

```

```

<div class="projDetails">
    <input type="text" class="form-control titleInput" placeholder="Project Title" id="title">
        <textarea class="form-control projdescriptionInput" placeholder="Description" id="projdescp"></textarea>
    </div>
    <button class="deleteButtonP" onclick="clearProjDetails(this)">delete</button>
    <div style="clear: both;"></div>
</div>
<div class="container text-center mt-2" id="addprojectButton">
    <button onclick="addNewProj()" class="btn btn-warning btn-sm">
        Add Another Project
    </button>
</div>
</div>
<div class="container text-center my-4">
    <button id="generateButton" class="btn btn-warning btn-large">
        Generate Resume
    </button>
</div>
</div>
</div>
</div>

```

```

<div id="resume-images">
    <div class="image-container">
        
        <p class="image-quote">Every Resume Tells a Story-Unwind With Success,Relax, and Let Your Professional Journey Begin</p>
    </div>
    <div id="resume-template" class="resume">
        <div class="personal-information">
            <div class="profile-picture-container">
                
            </div>
            <h1 id="nameT">Name</h1>
            <p id="roleT"><strong>Desired Role</strong></p>
            <p id="ageT"><strong>Age:</strong>Your Age</p>
            <p id="numberT"><strong>Contact No. :</strong>Contact Number</p>
            <p id="EmailT"><strong>Email:</strong> your.email@example.com</p>
            <div class="social-links">
                <strong>Social Links:</strong> <br>
                <i class="bi bi-github"></i> <a id="githubT" href="https://github.com/" class="github-link">Github</a>
                <br><i class="bi bi-linkedin"></i> <a id="linkedinT" href="https://linkedin.com/" class="linkedin-link">LinkedIn</a>
                <br><i class="bi bi-globe"></i> <a id="portfolioT" href="https://portfolio.com/" class="portfolio-link">Portfolio</a>
            </div>
        </div>
    </div>

```

```

</div>
<div class="hobby">
<strong>Hobbies:</strong>
<ul id="Ht">
<li>
<p id="hobbyt">Photography</p>
</li>
</ul>
</div>
<div class="objectives">
<strong>Objective:</strong>
<p id="objtT">Active contributor to open source projects,fostering a passion for
collaborative coding and community engagement..</p>
</div>
</div>

<div class="professional-information">
<div class="skills">
<h2>Technical Skills</h2>
<p id="langT"><strong>Programming Lanuages: </strong>Java,python,c,c++</p>
<p id="toolsT"><strong>Devlopment Tools: </strong>Springboot,Flask,Django</p>
<p id="softwareT"><strong>Softwares: </strong>MS visual studio code,MySQL
Workbench</p>
</div>
<div class="work-experience">
<h2>Work Experience</h2>
<div class="experience">
<ul id="weT">
<li>
<p><strong id="ExRoleT">Your Role</strong></p>
</li>
<li>
<p id="wdT"> Work Duration</p>
</li>
<li>
<p><strong id="weC">Company Name</strong></p>
</li>
</ul>
</div>
</div>
<div class="education">
<h2>Education</h2>
<div class="edu-experience">
<ul id="edueT">
<li>
<p><strong id="clgT">Your School/College</strong></p>
</li>
<li>
<p id="courseT">Degree/course Name</p>
</li>
<li>
<p id="eduT">Start Year</p>

```

```

        <p id="eduT2"> End Year</p>
    </li>
    <li>
        <p id="perct">CGPA/Percentage%</p>
    </li>
    </ul>
    </div>
</div>
<div class="projects">
    <h2>Projects</h2>
    <div class="project">
        <ul id="prodet">
            <li>
                <p><strong id="titleT">Your Project Title</strong></p>
            </li>
            <li>
                <p id="projdescpT">Project Description</p>
            </li>
        </ul>
    </div>
<footer>
    <div class="footer-content">
        <p>&copy; 2024 | Resume Template | VinayMeshram </p>
    </div>
</footer>
</div>

</div>
<div class="image-container">
    
    <p class="image-quote">Join Celebrations Of Success, Your Professional Victory awaits</p>
</div>
</div>

<!-- Add this checkbox -->
<div id="removeFooterCheckboxContainer">
    <input type="checkbox" id="removeFooterCheckbox"> Remove Copyright Footer
</div>

</div>

<div class="container mt-3 text-center">
    <button class="download" id="downloadButton">Download Resume <i class="bi bi-download"></i></button>
</div>

```

```

<script src="build.js"></script>
<script>
  document.getElementById("generateButton").addEventListener("click",
generateResumeButton);

</script>

</body>
</html>

```

Analyser.html

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Resume Analyzer</title>
  <link rel="stylesheet" href="analyzer.css">
  <script src="https://kit.fontawesome.com/a076d05399.js"
crossorigin="anonymous"></script>
</head>
<body>

  <!-- Navigation Bar -->
  <nav>
    <div class="navbar-left">
      <span class="logo">Resume Builder</span>
    </div>
    <div class="navbar-right">
      <a href="index.html" class="nav-link">Home</a>
      <a href="analyser.html" class="nav-link">Analyzer</a>
      <a href="aboutUs.html" class="nav-link">About us</a>
    </div>
  </nav>

  <div class="container">
    <h1>Resume Analyzer</h1>
    <p>Upload your resume to evaluate its accuracy and professionalism</p>

```

```

<div class="upload-box">
    <input type="file" id="resumeUpload" accept=".pdf,.doc,.docx">
</div>

<button onclick="analyzeResume()">Analyze Resume</button>

<div class="result">
    <h3>Analysis Result</h3>
    <p id="feedback"></p>
    <div class="stars" id="starRating"></div>
    <p id="improvement"></p> <!-- Improvement suggestions -->
</div>
</div>

<script>
    function analyzeResume() {
        const fileInput = document.getElementById("resumeUpload");
        const feedback = document.getElementById("feedback");
        const starRating = document.getElementById("starRating");
        const improvement = document.getElementById("improvement");

        if (!fileInput.files.length) {
            feedback.innerHTML = "<span class='error'>Please upload a resume file.</span>";
            starRating.innerHTML = "";
            improvement.innerHTML = "";
            return;
        }

        setTimeout(() => {
            let score = Math.floor(Math.random() * 11); // Simulated score from 0-10

            let starsHTML = "";
            for (let i = 0; i < 10; i++) {
                starsHTML += i < score ? `<i class="fas fa-star filled"></i>` : `<i class="far fa-star"></i>`;
            }

            let review = "";
            let suggestion = "";

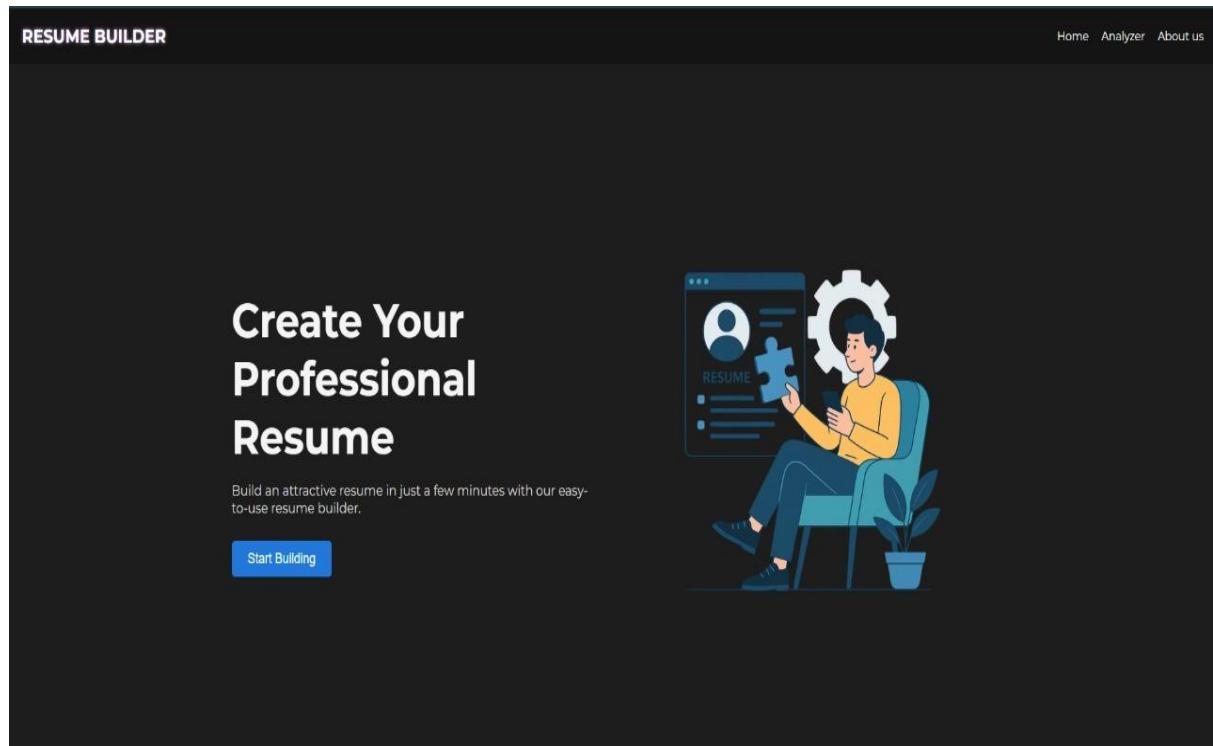
            if (score <= 3) {
                review = "❌ Poor Resume - Needs Major Improvements";
                suggestion = "Consider improving grammar, formatting, and structure. Make sure to include relevant skills and achievements.";
            } else if (score <= 6) {
                review = "⚠️ Average Resume - Needs Some Work";
                suggestion = "Your resume has potential but requires better clarity and professional formatting. Avoid unnecessary details.";
            } else if (score <= 8) {
                review = "✅ Good Resume - Minor Refinements Needed";
                suggestion = "Your resume is well-structured, but consider refining the language";
            }
        }, 1000);
    }
</script>

```

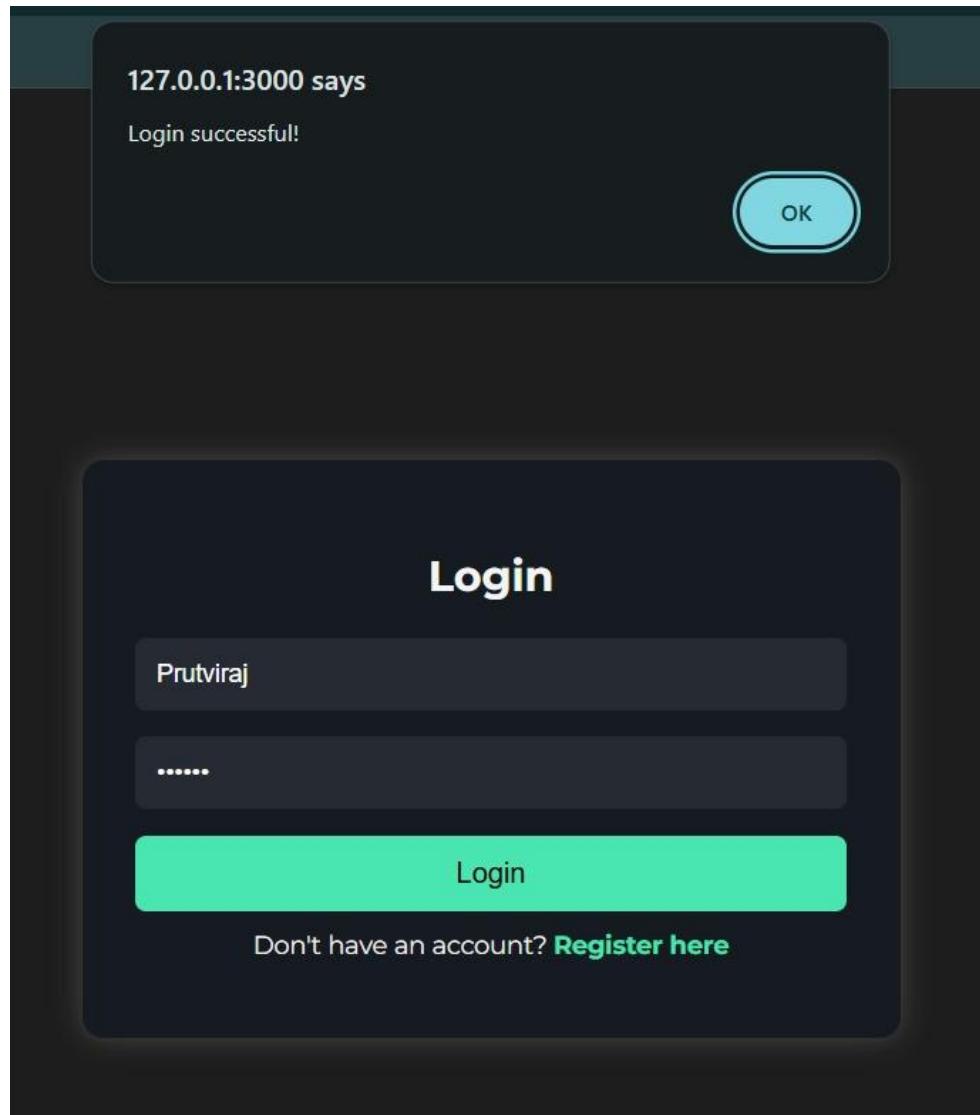
```
and ensuring consistency in formatting.";  
    } else {  
        review = "🌟 Excellent Resume - Well Done!";  
        suggestion = "Your resume is outstanding! Just double-check for minor typos and  
keep it updated with new achievements.";  
    }  
  
    feedback.innerHTML      =     `<span      class="success">${review}      (Rating:  
${score}/10)</span>`;  
    starRating.innerHTML = starsHTML;  
    improvement.innerHTML = `<span class="suggestion">${suggestion}</span>`;  
}, 2000);  
}  
</script>  
</body>  
</html>
```

6.Output

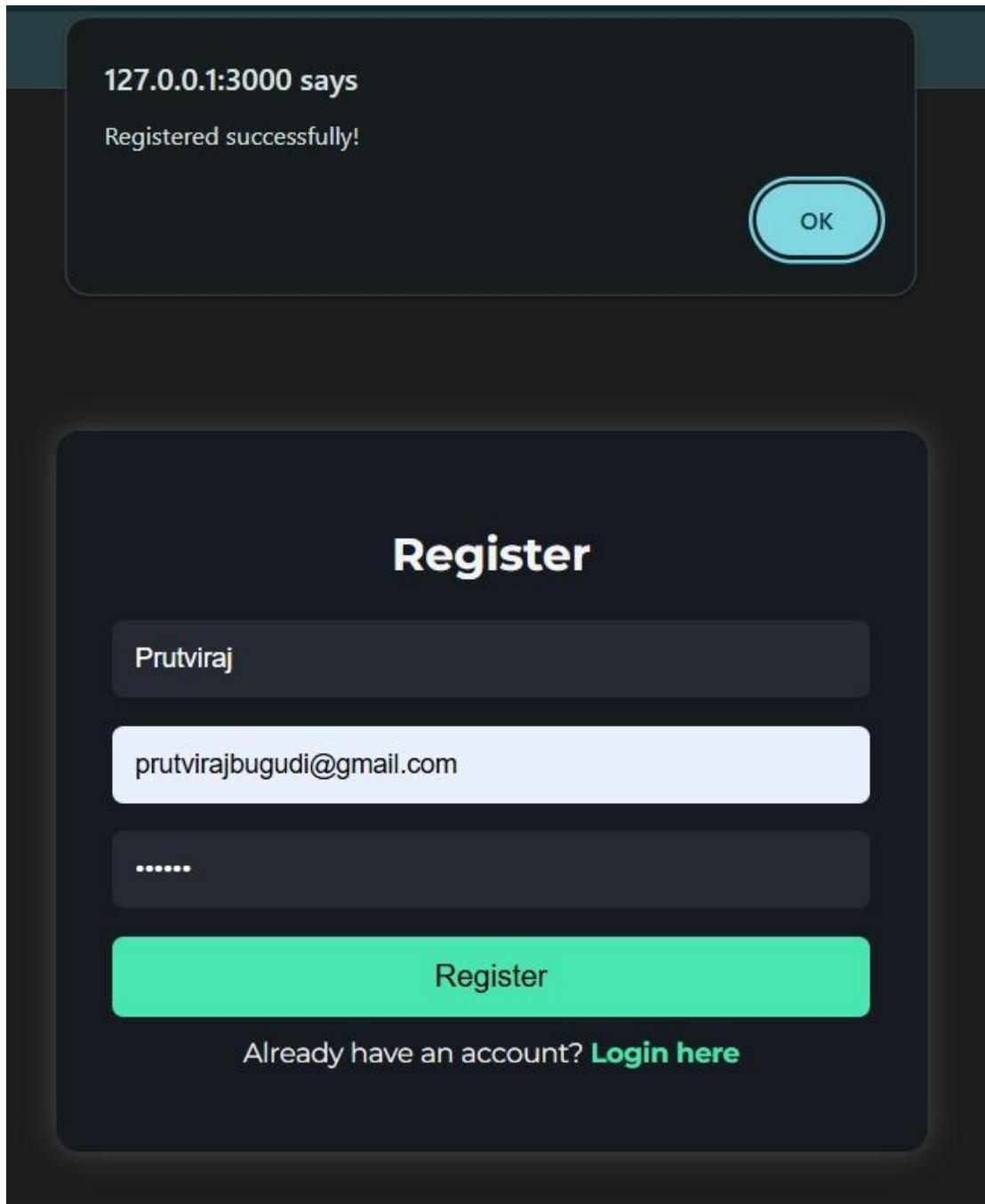
6.1 Home page



6.2 Login page



6.3 Register page



6.4 Resume builder

Resume Form

Your professional story starts with us!

Personal Information

Select your photo *

Your Name

Desired Role

Your Contact No.

Your Email Id

Age:

Hobbies:

[Add another Hobby](#)

[Delete](#)

Objective:

Social Links:

Professional Information

Technical Skills:

Programming Languages:

Development Tools:

Softwares:

Work Experience

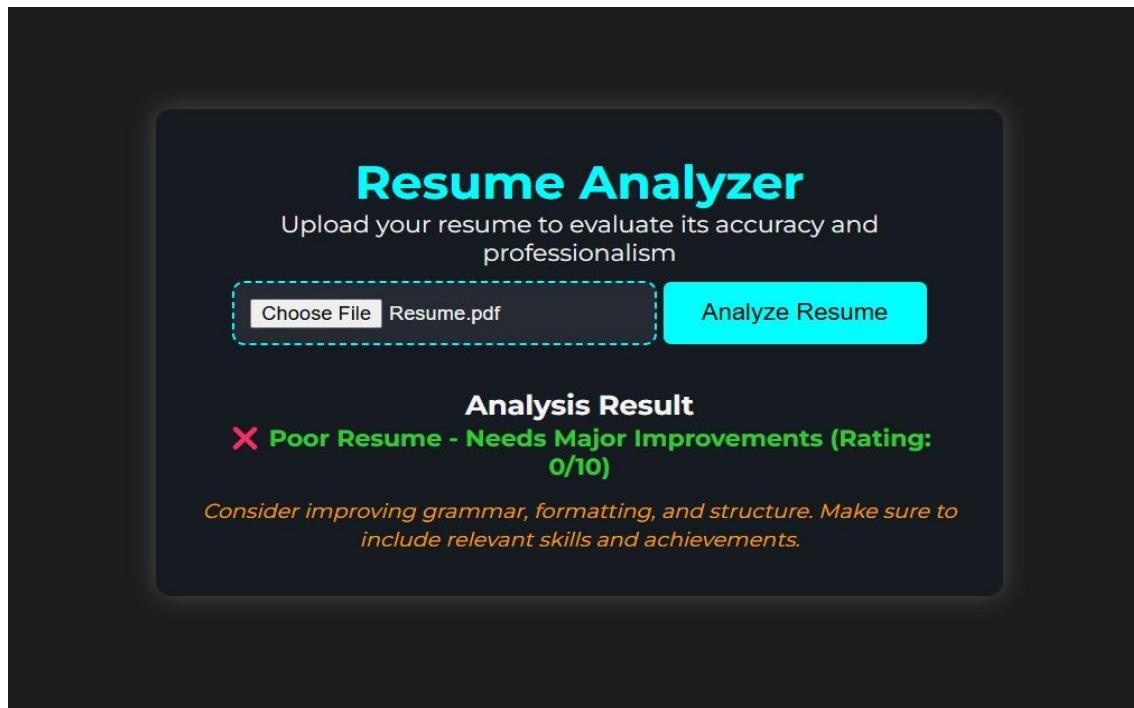
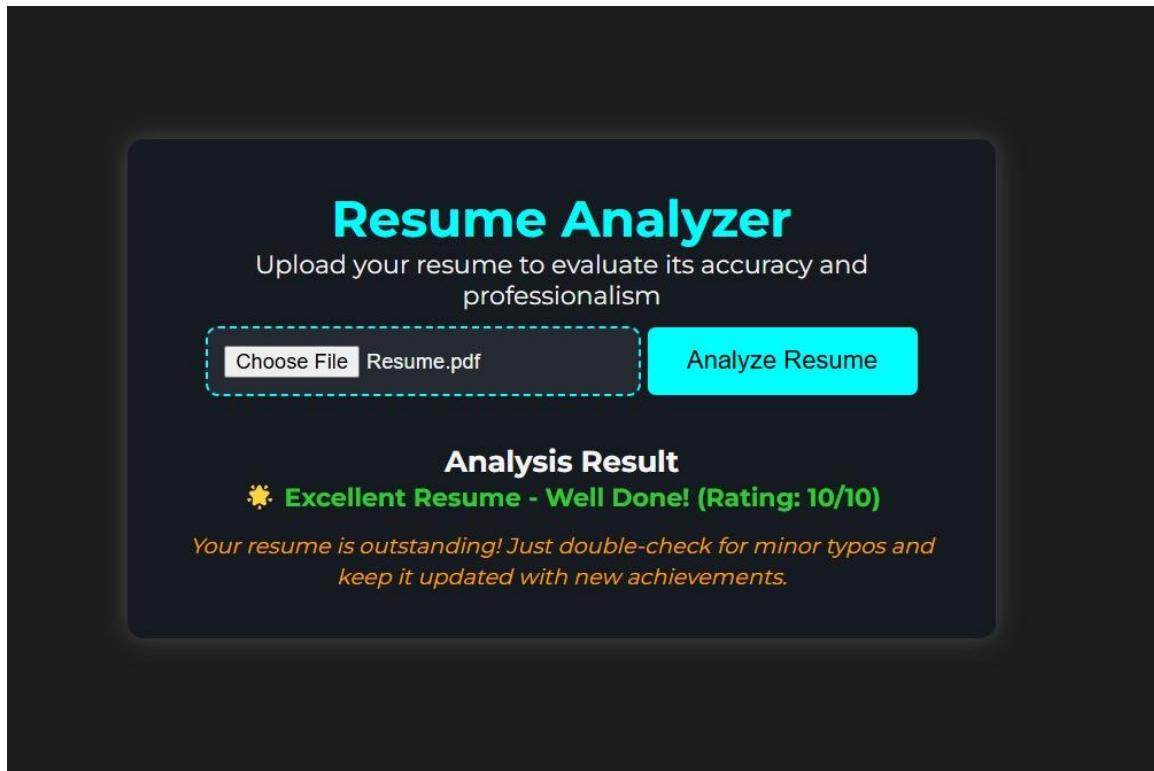
Role	company name	Duration ex: 2020-2021 or 1 jan 2020 - 31 dec 2021

[Add another experience](#)

Education:

School/College	Degree/Course	Start Year

6.5 Resume analyser



6.6 Resume Generator

RESUME BUILDER

Home Analyzer About us



Name
Desired Role
Age: Your Age
Contact No.: Contact Number
Email: your.email@example.com
Social Links:
[GitHub](#)
[LinkedIn](#)
[Portfolio](#)
Hobbies:
• Photography
Objective:
Active contributor to open source projects, fostering a passion for collaborative coding and community engagement.

Every Resume Tells a Story-Unwind With Success, Relax, and Let Your Professional Journey Begin

Technical Skills

Work Experience

Education

Projects

Remove Copyright Footer

Download Resume ↴



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Name
Desired Role
Age: Your Age
Contact No.: Contact Number
Email: your.email@example.com
Social Links:
[GitHub](#)
[LinkedIn](#)
[Portfolio](#)
Hobbies:
• Photography
Objective:
Active contributor to open source projects, fostering a passion for collaborative coding and community engagement.

Every Resume Tells a Story-Unwind With Success, Relax, and Let Your Professional Journey Begin

Technical Skills

Programming Languages: Java, Python, C/C++
Development Tools: Springboot, Flask, Django
Softwares: MS Visual Studio Code, MySQL Workbench

Work Experience

Your Role
Work Duration
Company Name

Education

Your School/College
Degree/Course Name
Start Year
End Year
CGPA/Percentage%

Projects

Your Project Title
Project Description

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Download Resume ↴



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6.7 About us page

The screenshot shows the 'About Us' page of a mobile application. At the top, there is a navigation bar with the text 'RESUME BUILDER' on the left and 'Home Analyzer About us' on the right. The main title 'About Us' is centered at the top of the content area. Below the title, the text 'Developed By' is displayed. A white rectangular card contains four developer names, each with a small circular profile icon above their name: 'Prutviraj', 'Abhinaya', 'Shivani', and 'Sumanth'. At the bottom of the card, the text 'Chaitanya University | BCA A2' is followed by two small social media icons: LinkedIn and GitHub.

7.FUTURE ENHANCEMENTS

Future enhancements for an AI-powered resume builder and analyzer could focus on improving user experience, increasing accuracy, and adding advanced features to better match resumes with job requirements. Here are some potential enhancements:

- Advanced Data Analytics and Reporting
- Behavioral and Personality Insights
- Advanced Interview Preparation Features
- AI-Powered Career Coaching
- Cloud-Based and Collaborative Features

8.CONCLUSION

In conclusion, an AI-powered resume builder and analyzer represents a significant advancement in job application processes, offering numerous benefits for both job seekers and recruiters. By leveraging AI's capabilities, such tools can optimize resume creation, ensuring that it is tailored to the specific job description, industry standards, and recruitment algorithms.

For job seekers, this means faster, more efficient resume crafting, personalized suggestions for improvement, and increased chances of getting noticed by employers. For recruiters, AI-driven analysis ensures that candidates' qualifications are accurately assessed, streamlining the process.

Ultimately, the integration of AI in resume building and analysis not only enhances the quality of resumes but also improves the overall recruitment experience. As the job market becomes more competitive, AI will continue to be an essential tool for bridging the gap between job seekers and employers, ensuring a more effective, data-driven approach to recruitment.

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