VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama", Belgaum -590014, Karnataka.

MINI PROJECT REPORT
on

AI Resume Architect Careers With Intelligence

Submitted by

Danish Kodavanti (1BM23CS086)
Dhruva S Rao (1BM23CS092)
Yohitesh (1BM23CS085)

Under the Guidance of
Prof. Vikrant B M
Professor, BMSCE

in partial fulfillment for the award of the degree of
BACHELOR OF ENGINEERING
in
COMPUTER SCIENCE AND ENGINEERING

B. M. S. COLLEGE OF ENGINEERING
(Autonomous Institution under VTU)
BENGALURU-560019

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B. M. S. College of Engineering,

Bull Temple Road, Bangalore 560019

(Affiliated To Visvesvaraya Technological University, Belgaum)

Department of Computer Science and Engineering

<u>CERTIFICATE</u>

This is to certify that the project work entitled "**AI Resume Architect Careers With Intelligence**" carried out by **Danish Kodavanti (1BM23CS086), Dhruva S Rao (1BM23CS092) AND Dama Yohitesh Naveen Sai (1BM23CS087)** who are bonafide students of **B. M. S. College of Engineering.** It is in partial fulfillment for the award of **Bachelor of Engineering in Computer Science and Engineering** of the Visveswaraiah Technological University, Belgaum during the year 2023-2024. The project report has been approved as it satisfies the academic requirements in respect of **Mini Project (23CS5PCOOM)** work prescribed for the said degree.

Signature of the Guide   Signature of the HOD
Prof. Vikrant B M   Dr. Kavitha Sooda
Assistant Professor   Professor & Head, Dept. of CSE
BMSCE, Bengaluru   BMSCE, Bengaluru

Name of the Examiner   Signature with date

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B. M. S. COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DECALARATION

We, Danish Kodavanti (1BM23CS086), Dhruva S Rao (1BM23CS092) and Dama Yohitesh Naveen Sai (1BM23CS085), students of 5th Semester, B.E, Department of Computer Science and Engineering, B. M. S. College of Engineering, Bangalore, here by declare that, this Project Work-titled **AI Resume Architect Careers With Intelligence** has been carried out by us under the guidance of Prof. Vikrant B M, Assistant Professor, Department of CSE, B. M. S. College of Engineering, Bangalore during the academic semester August 2025- December 2025.

We also declare that to the best of our knowledge and belief, the development reported here is not from part of any other report by any other students.

Signature

Danish Kodavanti (1BM23CS086)

Dhruva S Rao (1BM23CS092)

Dama Yohitesh Naveen Sai (1BM23CS085)

1. Introduction

In today's competitive job market, having a well-structured and professional CV is critical for showing one's talents and obtaining job possibilities. However, many people fail to organize their content, choose acceptable terminology, and effectively present their qualifications. To address these issues, our small project "AI Resume Architect - Careers with Intelligence" offers an intelligent and user-friendly platform that automates the resume-building process with Artificial Intelligence.

The project uses AI to generate high-quality descriptions, talent summaries, and professional statements based on user input. In addition, the system includes fundamental online capabilities including user login, profile building, and resume editing. The platform assures that users can simply build professional, ATS-friendly resumes by integrating AI automation with a simple and interactive interface, regardless of prior formatting or content writing experience.

The proposed approach adds to the growing list of AI-assisted career development tools. While many existing systems offer templates, our AI Resume Architect goes a step further by intelligently producing content, saving the user time and effort. The findings show that AI may considerably improve the resume creation process by providing personalized, accurate, and professional information. The findings show that AI may considerably improve the resume creation process by providing personalized, accurate, and professional information.

1.1 Motivation

The fundamental motivation behind this initiative is to reduce the obstacles that job searchers have when preparing their resumes. Many candidates lack the necessary experience or confidence to produce effective professional summaries, skill descriptions, and job duties. Furthermore, manual formatting can be time-consuming and complex.

To address these issues, we created an AI-powered resume builder that can analyze user input and automatically generate high-quality resume content. This not only saves time, but also assures that the finished resume is professional, consistent, and in line with industry standards. The motivation is to provide users with a smart tool that improves their chances of obtaining professional possibilities.

1.2 Scope of the Project

The AI Resume Architect offers the following major features AI-generated resume content Generates descriptions, objectives, and skill summaries based on user details. User authentication includes login, registration, and profile management. Resume Templates Provides structured forms for professional resume design. The user-friendly interface simplifies input collecting and clearly displays generated material. The concept focuses on delivering a smart resume-building solution rather than a full recruitment system. It seeks to improve the resume creation process using artificial intelligence.

1.3 Problem Statement

Many job seekers struggle with creating a professional résumé. They struggle with content generation, formatting, and adapting their resumes to industry standards. This results in resumes that are incomplete, poorly designed, or useless, failing to highlight the candidate's abilities.

This project addresses the need of a simple, intuitive, and dependable tool for creating high-quality resume content with minimal user input. The AI Resume Architect addresses this issue by automating the content development process, allowing users to quickly and efficiently create an ATS-friendly and professional resume.

2. SRS (System Requirements Specification) document:

1. Introduction

1.1 Purpose

The purpose of this Software Requirements Specification (SRS) is to define the functional and non-functional requirements of the *AI Resume Architect – Careers with Intelligence* system. This document is intended for developers, testers, project evaluators, and stakeholders involved in the mini-project.

1.2 Scope

The AI Resume Architect is a web-based platform that streamlines resume creation using Artificial Intelligence.

The system allows users to:

- Register and log in
- Enter personal, educational, and professional details
- Generate AI-enhanced resume content
- Select templates and customize appearance
- View ATS score and suggestions
- Export resume as PDF/JPEG
- Store and manage multiple resumes

The project **does not include** full recruitment workflows, job posting systems, or employer dashboards.

1.3 Definitions, Acronyms, Abbreviations

Term	Meaning
AI	Artificial Intelligence
ATS	Applicant Tracking System
API	Application Programming Interface
NLP	Natural Language Processing
UI/UX	User Interface / User Experience

1.4 References

(References will match the ones provided in your uploaded report.)

2. Overall Description

2.1 Product Perspective

This system is an independent, browser-based web application. It integrates:

- **Frontend**: React + Tailwind
- **Backend**: Node.js + Express
- **Database**: Local JSON/LowDB
- **AI Engine**: OpenAI API
- **Export Engine**: jsPDF, html2canvas

It interacts with no external recruitment or HR systems.

2.2 Product Features Summary

- AI-powered resume content generation
- Resume scoring (ATS compatibility)
- Template selection & real-time preview
- Resume editing & multiple resume management
- Secure login and user profiles
- PDF/JPEG export

2.3 User Classes

User Type	Description
Applicant / Student	Primary users creating and generating resumes
Admin (future scope)	Manages templates, monitors system usage

2.4 Operating Environment

- OS: Windows / macOS / Linux
- Browser: Chrome, Edge, Firefox, Safari
- Server: Node.js runtime (v18+)

2.5 Design & Implementation Constraints

- Limited storage due to JSON/LowDB
- Dependency on OpenAI API for AI content

- Internet required for AI generation

2.6 Assumptions & Dependencies

- User information must be accurate for best AI results
- Templates depend on browser rendering capabilities
- AI output may vary based on API model updates

3. System Features (Functional Requirements)

3.1 User Registration & Login

3.1.1 Description

Users must create an account to store and manage resumes.

3.1.2 Functional Requirements

- FR1: The system shall allow users to register using email and password.
- FR2: The system shall validate email format.
- FR3: The system shall authenticate login credentials.
- FR4: The system shall store user profiles securely.

3.2 Resume Data Input

Description

Users can enter their personal, educational, and professional information.

Functional Requirements

- FR5: The system shall provide fields for personal information.
- FR6: The system shall allow adding/editing/deleting education details.
- FR7: The system shall allow adding/editing/deleting work experience.
- FR8: The system shall collect skills, projects, and achievements.

3.3 AI Content Generation Module

Description

AI enhances content to be professional and ATS-friendly.

Functional Requirements

- FR9: The system shall send user-entered data to the AI engine.

- FR10: The system shall generate enhanced achievement-based bullet points.
- FR11: The system shall optimize text for ATS resume screening.
- FR12: The system shall generate a professional summary automatically.

3.4 Template Selection & Rendering

Description

User chooses from available templates; preview updates dynamically.

Requirements

- FR13: The system shall display multiple resume templates.
- FR14: The system shall show real-time resume preview.
- FR15: The system shall apply selected theme colors (if any).

3.5 Resume Scoring (ATS Score)

Description

AI evaluates resume quality and keyword richness.

Requirements**

- FR16: The system shall compute ATS score.
- FR17: The system shall show improvement suggestions.

3.6 Resume Export

Requirements

- FR18: The system shall export resume as PDF.
- FR19: The system shall export resume as JPEG.
- FR20: Exported result must preserve layout and formatting.

3.7 Resume Management

- FR21: The system shall allow users to save resumes.
- FR22: The system shall list all saved resumes.
- FR23: The system shall allow editing a previously created resume.
- FR24: The system shall allow deleting previously saved resumes.

4. External Interface Requirements

4.1 User Interface

Pages:

- Landing Page

- Registration/Login

- Dashboard (My Resumes)

- Resume Builder

- Template Selector

- ATS Score Page

- Resume Preview & Export Page

The UI must be responsive and mobile-friendly (future scope).

4.2 Hardware Interfaces

Not applicable (web application).

4.3 Software Interfaces

- OpenAI API

- jsPDF

- html2canvas

4.4 Communication Interfaces

HTTPS communication for API calls.

5. Non-Functional Requirements

5.1 Performance Requirements

- NFR1: Resume generation time must be <2 seconds after AI response.

- NFR2: Dashboard must load within 1 second.

5.2 Security Requirements

- NFR3: User data must be stored using hashed passwords.

- NFR4: System must prevent unauthorized access.

- NFR5: API keys should not be exposed in frontend code.

5.3 Reliability

- NFR6: System uptime ≥ 95%.
- NFR7: Resume export must be error-free under normal load.

5.4 Usability

- NFR8: User interface must be minimal and intuitive.
- NFR9: Real-time preview must update without page refresh.

5.5 Maintainability

- NFR10: Code must follow modular structure (React components).

5.6 Portability

- NFR11: Application must run on all modern browsers.

6. System Models

6.1 Use Case Diagram

(Aligned with your project report; can be recreated on request.)

6.2 Class Diagram

(User, Resume, Template, AI Engine, Database classes)

6.3 Sequence Diagram

Describes flow: User → Builder UI → AI Engine → Template Renderer → Exporter.

6.4 Activity Diagram

Flow: Login → Enter Data → AI Enhance → Select Template → Preview → Export.

6.5 Data Flow Diagram

(Processes: Data Input → AI Enhance → Template Selection → Export)

I can redraw all diagrams in **UML visual format** if you want.

7. Future Enhancements

- Automatic tailoring to job descriptions
- Multilingual resume generation
- Cloud sync and mobile app
- Domain-specific AI models (IT, Finance, Healthcare)

- Live grammar correction
- Video resume support
- Real-time collaboration

8. Appendices

- System screenshots
- Test cases

3. Design

The design phase is concerned with the structural and functional workflow of the AI Resume Architect Careers with Intelligence system. It describes how several modules work together, the flow of data, user interactions, processing logic, and internal functionalities. This chapter is broken into two major sections.

3.1 High Level Design

High Level Design (HLD) provides a comprehensive overview of the system's major components. It explains the system's appearance from the outside, the modules involved, and how users interact with it. HLD assists in comprehending the project's general architecture without focusing on internal code-level specifics.

3.1.1 System Architecture Diagram
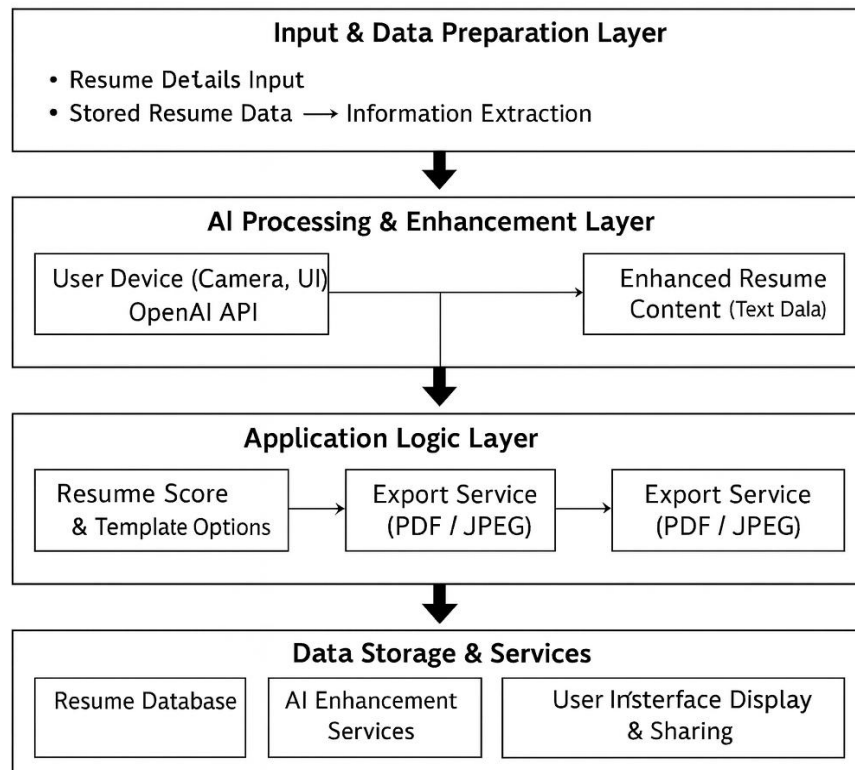
The architecture shows how the user interacts with the application, enters resume information, and the system uses AI to generate a professional resume. The user can then preview the output and export it.

3.1.2 Use Case Diagram

The Use Case Diagram provides a functional summary of the actions performed by the user within the system.
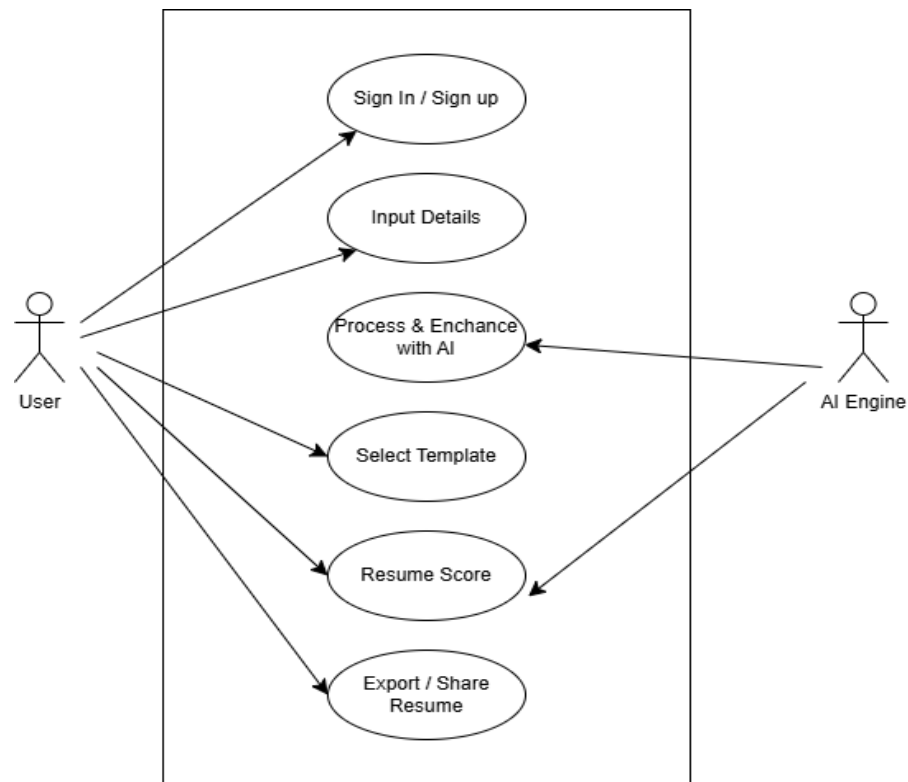
This diagram helps in visualizing user–system interactions and understanding the functional requirements at a high level.

3.2 Detailed Design

Detailed Design focuses on each module's internal workings, such as data flow, processing processes, operation order, and database structure. This section describes how each component of the system functions on a technical level.

3.2.1 Class diagram
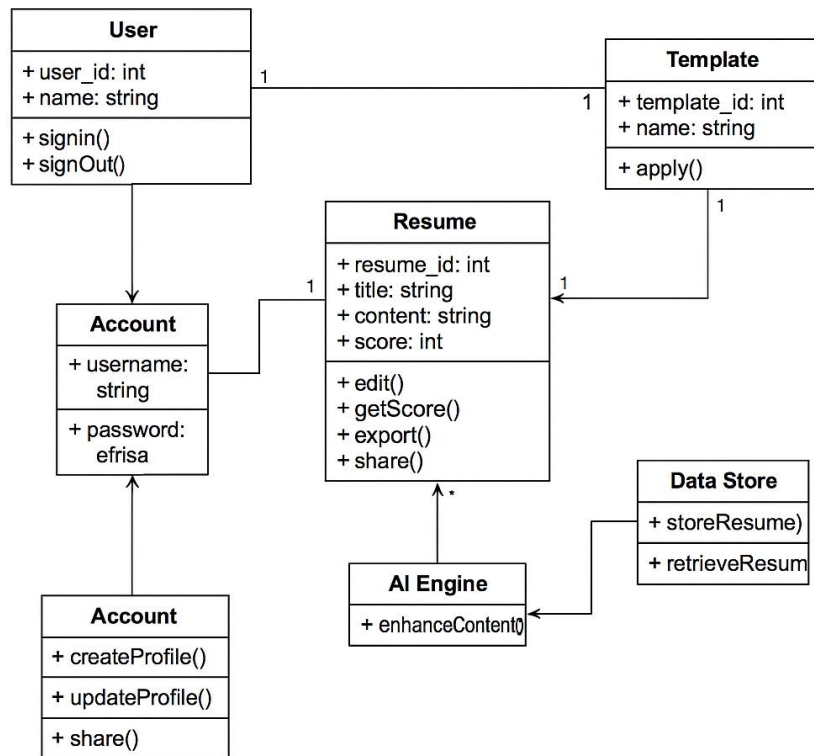
The AI Resume Architect system's basic objects are represented by the class diagram, which includes the User, Account, Resume, Template, AI Engine, and Data Store entities. It demonstrates how these classes interact, their attributes and methods, and how the system handles resume preparation, AI augmentation, template application, and data storage.

3.2.2 State Transition Diagram
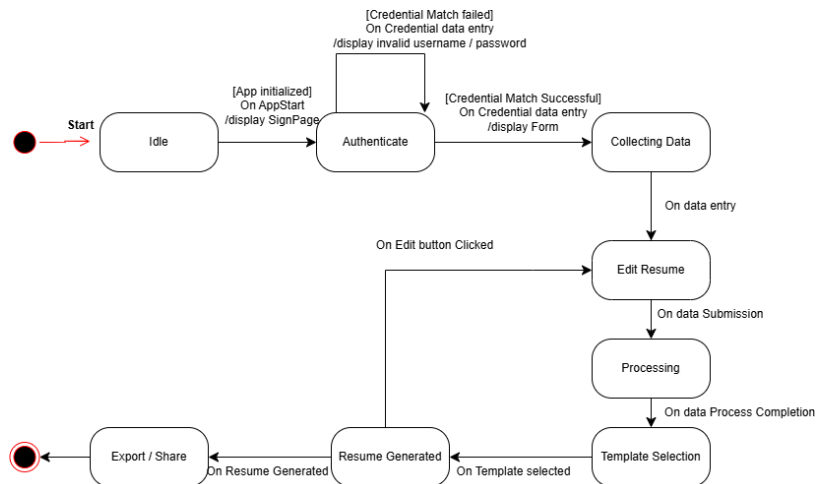
The state diagram depicts how the system transitions between several states, including idle, authentication, data entry, AI processing, template selection, resume generation, and export. It depicts how user actions cause these state changes and how the system proceeds logically from the beginning to the end resume construction.

3.2.3 Sequence Diagram
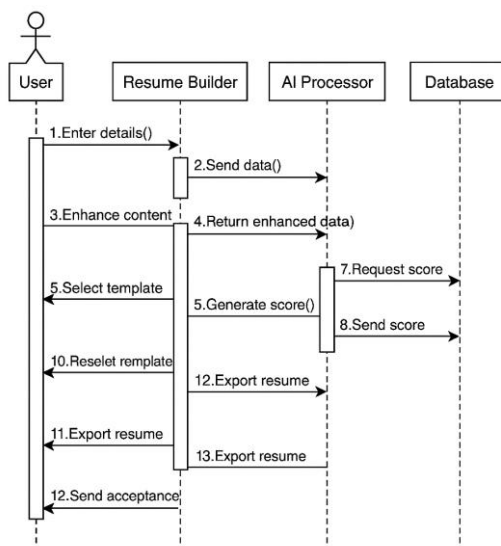
The sequence diagram depicts the user's interaction with the resume builder, AI processor, and database during resume generation. It describes how user information is entered, evaluated by AI for enhancement and scoring, and then structured into a predetermined template. The figure depicts the communication flow between components, ensuring a thorough grasp of how the final resume is created and exported.

3.2.4 Activity Diagram
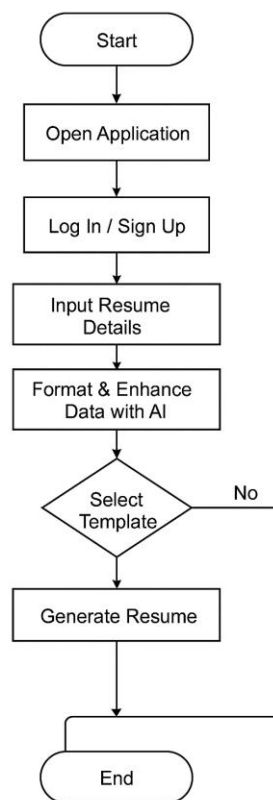
The activity diagram depicts the entire resume-building process, from launching the application and logging in to entering details, AI augmentation, template selection, and generating the final resume. It visually depicts each user action and system operation, providing a clear picture of how the resume is built step by step.

3.2.5 Dataflow diagram
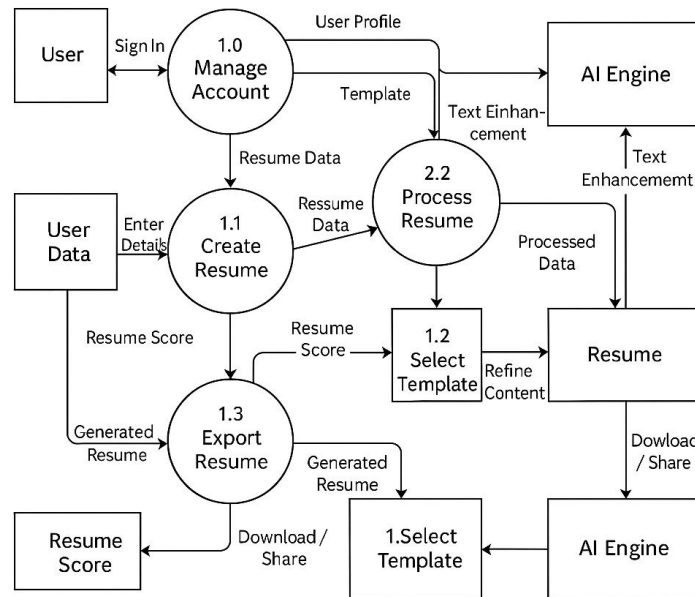
The Data Flow Diagram depicts how user information flows through the AI Resume Architect system, from input to AI augmentation, template selection, and final resume generation. It clearly demonstrates how each module interacts and how data is converted at every stage to build a professional, AI-enhanced resume.

4. Implementation

This chapter discusses the practical implementation of the AI Resume Architect - Careers with Intelligence system. It describes the planned approach, the algorithmic workflow, the tools and technologies utilized to create the application, and the testing done to verify system accuracy and reliability. The solution is focused on automating resume creation with AI-powered text augmentation and template-based resume formatting.

4.1 Proposed Methodology

The AI Resume Architect technology uses a structured methodology to convert raw user data into a professionally styled resume. Users begin by registering, logging in, and providing personal, educational, and professional information. The collected data is then transferred to the AI Engine, which uses natural language processing to improve grammar, add action verbs, optimize keywords, and make the material more ATS (Applicant Tracking System) compatible. The user then selects a resume template, and the upgraded content is automatically transferred to the chosen layout. The system then provides a preview so that the user can check the results before downloading the final resume. This process offers a faster, smarter, and more accurate alternative to typical manual resume-building techniques.

4.2 Algorithm Used for Implementation

The resume enhancement process is driven by an NLP-based AI algorithm integrated with an AI model (OpenAI API). The system follows these steps:

Data Collection: User inputs are collected from the form and categorized.

Data Structuring: Details are arranged into resume sections such as skills, experience and etc.

AI Enhancement: The structured data is sent to the AI Engine for content improvement.

Keyword Optimization: The AI adds job-specific keywords and improves sentence clarity.

Resume Scoring: The AI generates a score based on structure, clarity, and keyword richness.

Template Mapping: Enhanced content is inserted into the user-selected resume template.

Final Output: The completed resume is exported as a PDF/JPG file.

This algorithm improves the quality and professionalism of the final resume by combining user

data with AI-generated enhancements.

4.3 Tools and Technologies Used

The following tools and technologies were used to implement the AI Resume Architect system: Software & Development Tools

- **Frontend:** React JS (v18+), Tailwind CSS
- **Backend:** Node.js (v18+), Express.js
- **Database:** Local JSON / LowDB for small-scale data storage
- **AI API:** OpenAI SDK for resume enhancement and scoring
- **Export Libraries:** html2canvas, jsPDF (for JPG/PDF generation)
- **Development Tools:** VS Code, npm, Git
- **OS Compatibility:** Windows 10/11, macOS, Linux

4.4 Testing

The system was thoroughly tested to assure its accuracy, dependability, and use.

4.4.1 Functional Testing

Each module (login, data entry, AI augmentation, template selection, and resume export) was tested to verify proper functionality.

4.4.2 Input/Output Testing

Various sample user details were utilized to determine whether the AI generated meaningful and professional results.

4.4.3 Template Testing

Various templates were tested for correct formatting, alignment, and content mapping.

4.4.4 Export Testing

The PDF/JPEG export functions were tested to ensure that the resume retains its layout, font style, and structure.

4.4.5 User Acceptance Testing

Feedback from trial users was gathered to validate the usability and quality of AI-generated material. Testing confirmed that the system functions smoothly and delivers a refined, AI-enhanced resume.

5. Results and Discussion

This chapter describes the outcomes of implementing the AI Resume Architect Careers with Intelligence system. Various pictures, figures, and observations demonstrate how the system functions at various phases, from user login to generation of the final AI-enhanced résumé. The results demonstrate the system's usefulness, usability, and performance in creating high-quality, ATS-friendly resumes.

5.1 System Output Screenshots & Explanation
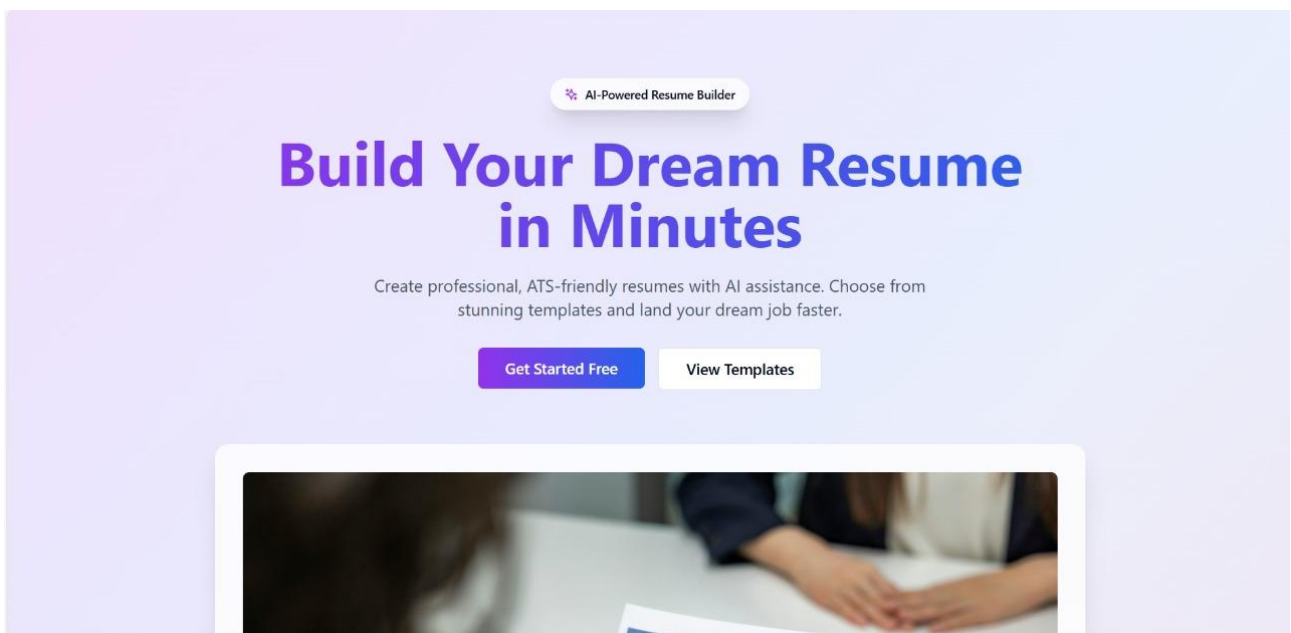
Figure 5.1 Landing Screen

The homepage highlights the system's primary goal: allowing users to create an AI-powered resume in minutes. It emphasizes features such as ATS compatibility, numerous templates, and AI-powered content. The simple UI directs visitors to either Get Started or View Available Templates.
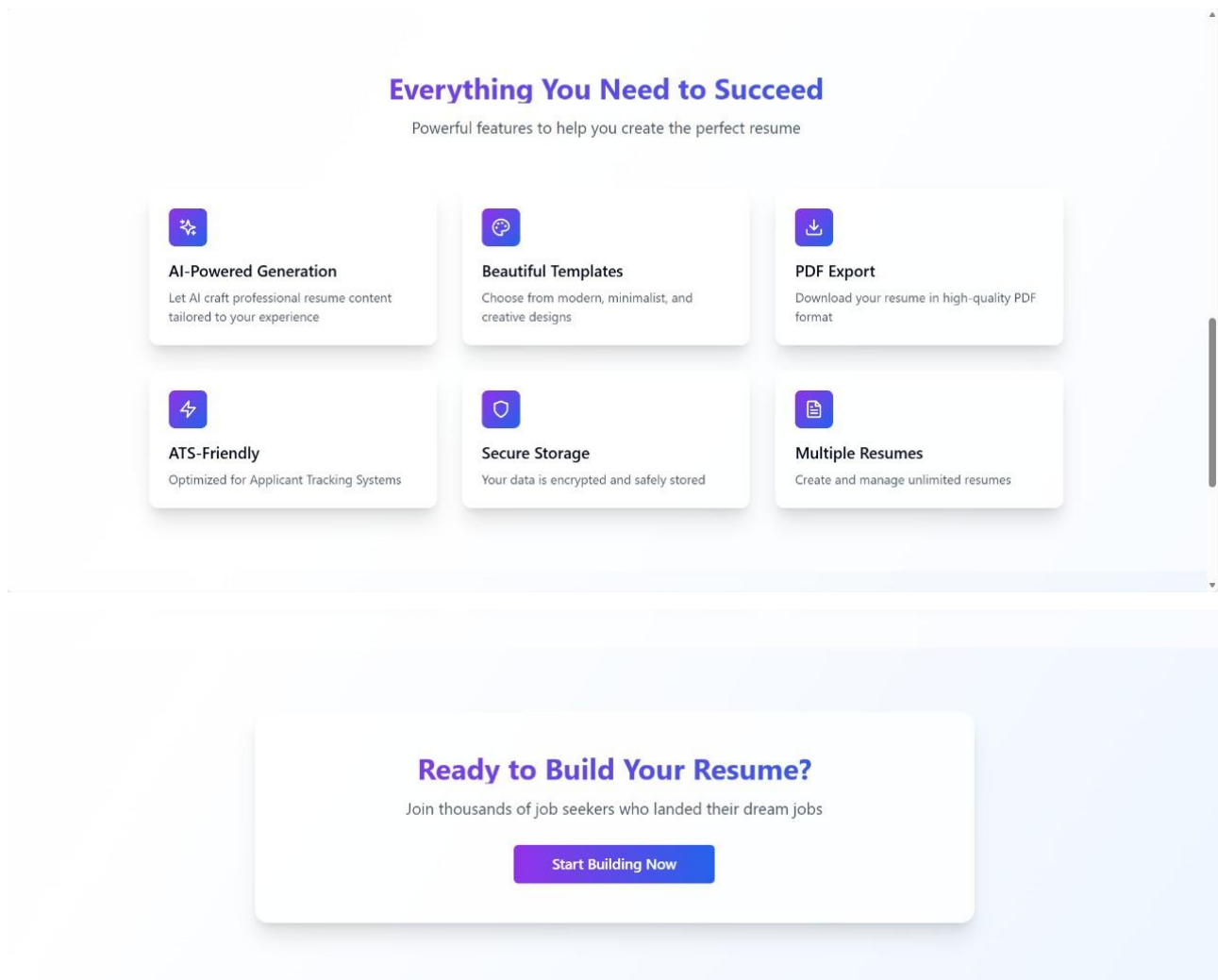
Figure 5.2 – Key Feature Highlights

This section presents the core functionalities:

- AI-Powered Generation
- Beautiful Templates
- PDF Export
- Secure Storage
- ATS-Friendly Optimization
- Multiple Resume Management

These features validate the system's ability to provide a complete professional resume-building solution.
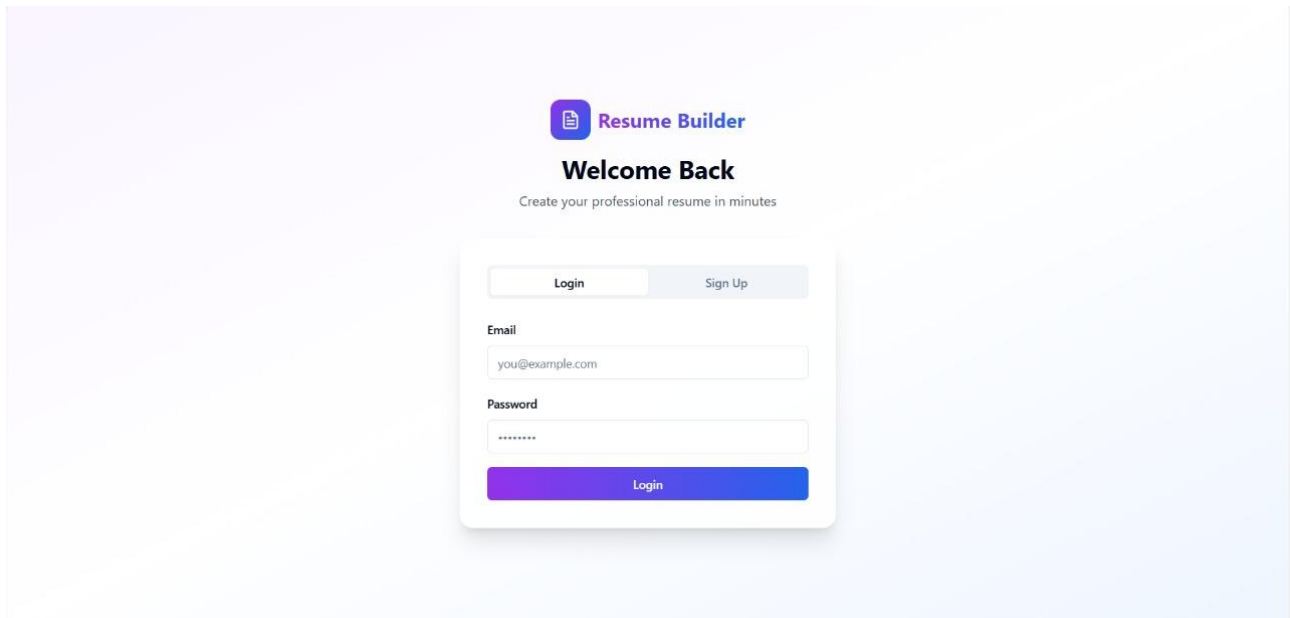
Figure 5.3 – User Login Page

The login interface enables users to safely authenticate themselves. The basic design offers a smooth onboarding procedure, allowing returning customers to continue working on saved resumes.
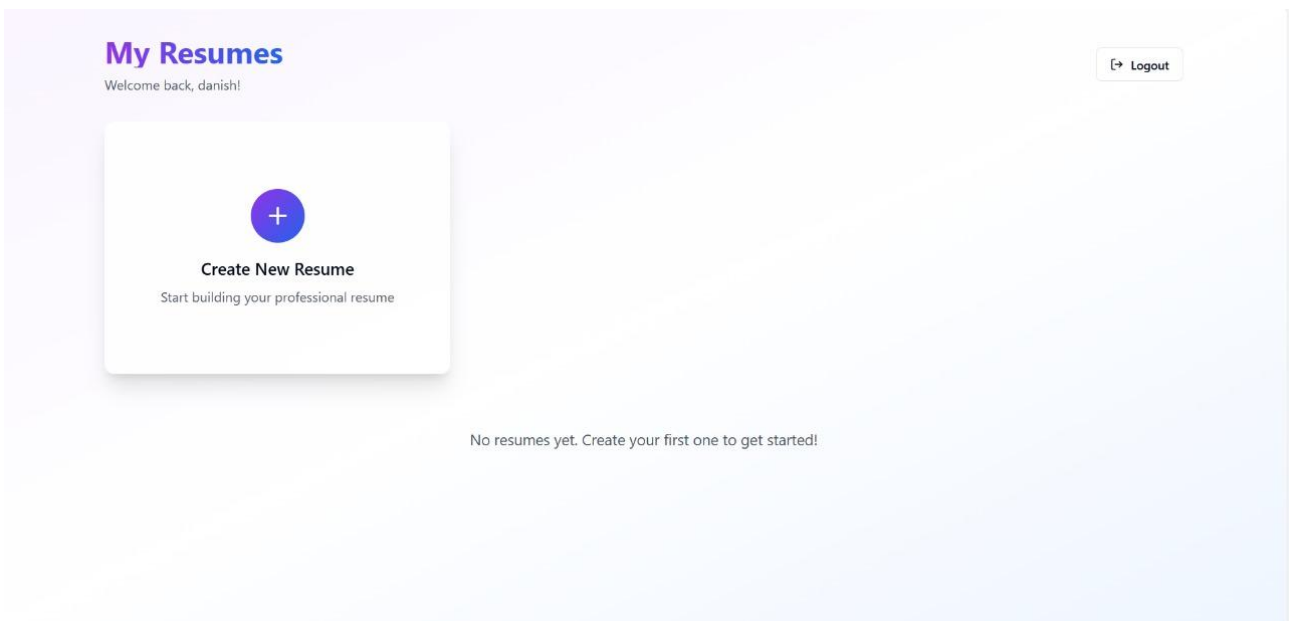
Figure 5.4 – User Dashboard ("My Resumes")

After logging in, users are taken to a dashboard where they may create new resumes or update old ones. This page exhibits session management and resume history storage functionality.

Figure 5.5 – Resume Builder (Personal Details Tab)

This screen demonstrates how users enter information such as their name, title, contact information, location, and professional description. The preview on the right side is generated in real time and displays changes as they happen.
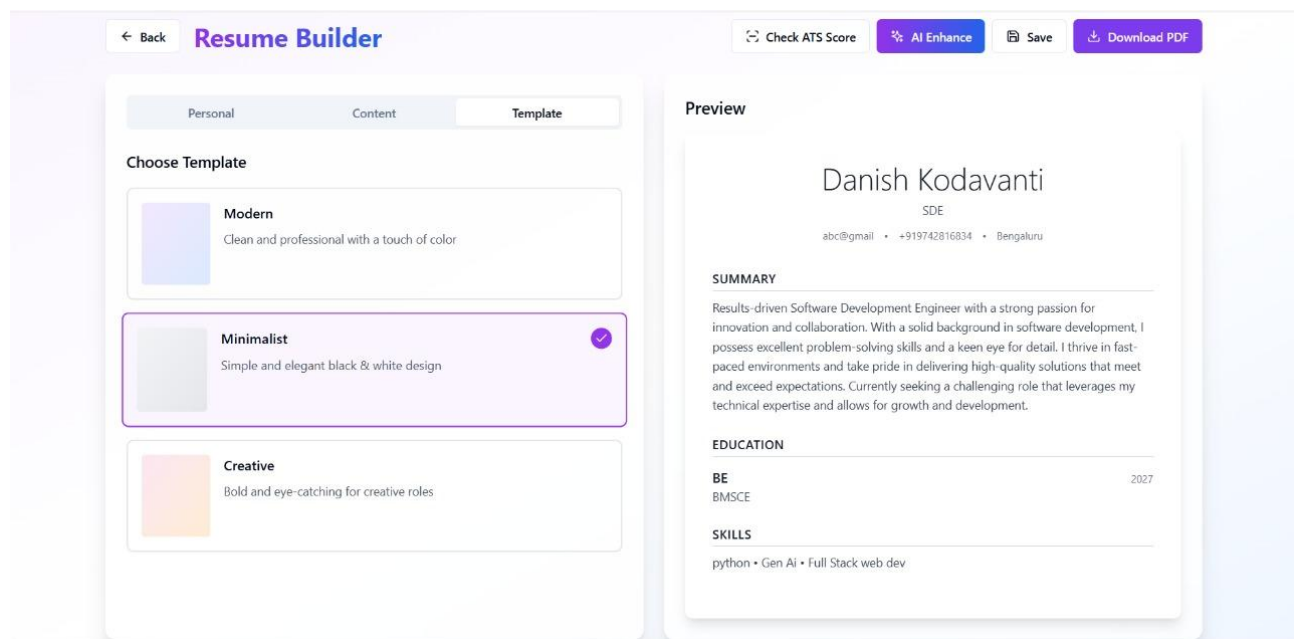

Figure 5.6 – Resume Builder (Content Tab)

Users can add employment experience, education, projects, and skills. The technology dynamically changes the resume preview to ensure correctness and clarity.
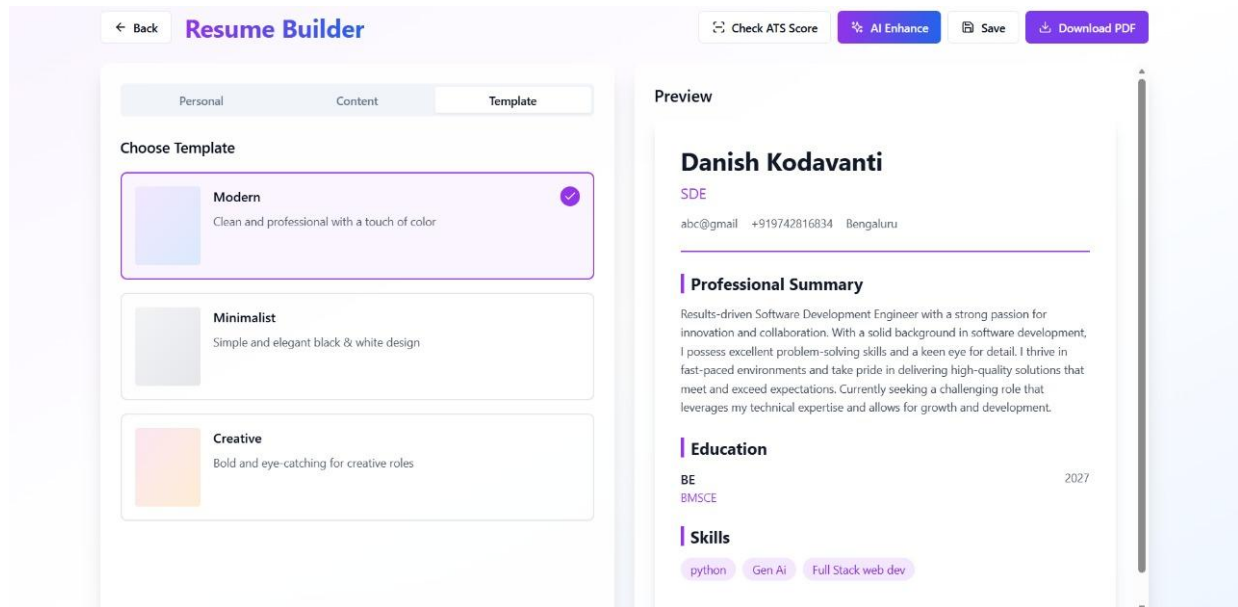
Figure 5.7 – Template Selection (Modern Template)

This image shows the user selecting a template. The "Modern" template offers a clean design with subtle colours.

Figure 5.8 – Template Selection (Minimalist Template)

The "Minimalist" template is a straightforward black-and-white design intended for formal job roles and ATS systems.
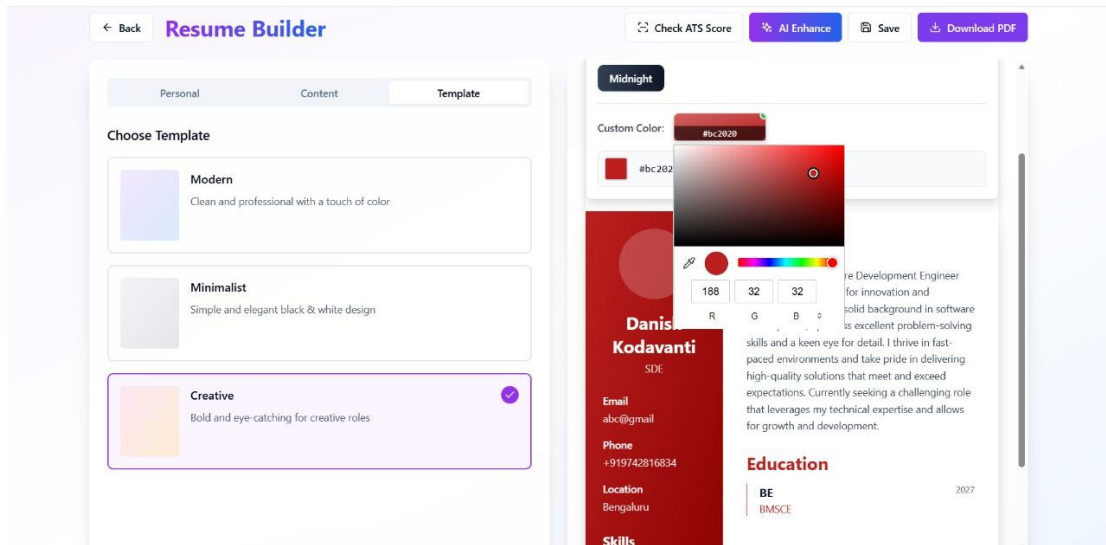
Figure 5.9 – Template Customization (Creative Template)

This feature allows users to choose colors and themes. It displays the system's versatility in dealing with individual resume aesthetics.

Figure 5.10 – ATS Score Analysis Screen

This screen displays the ATS (Applicant Tracking System) score computed by the AI Resume Architect. The resume obtains a score of 40 from ATS, as well as extensive criticism and ideas for development. The system identifies missing technical terms, formatting issues, and content improvement areas.

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Figure 5.11 – Resume Dashboard After Saving a Resume
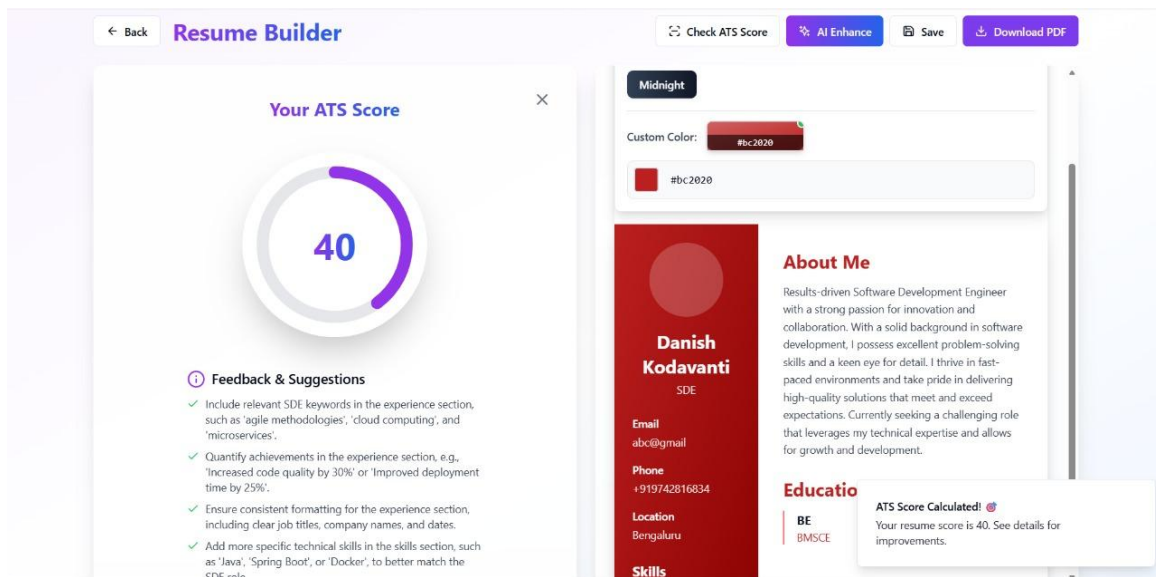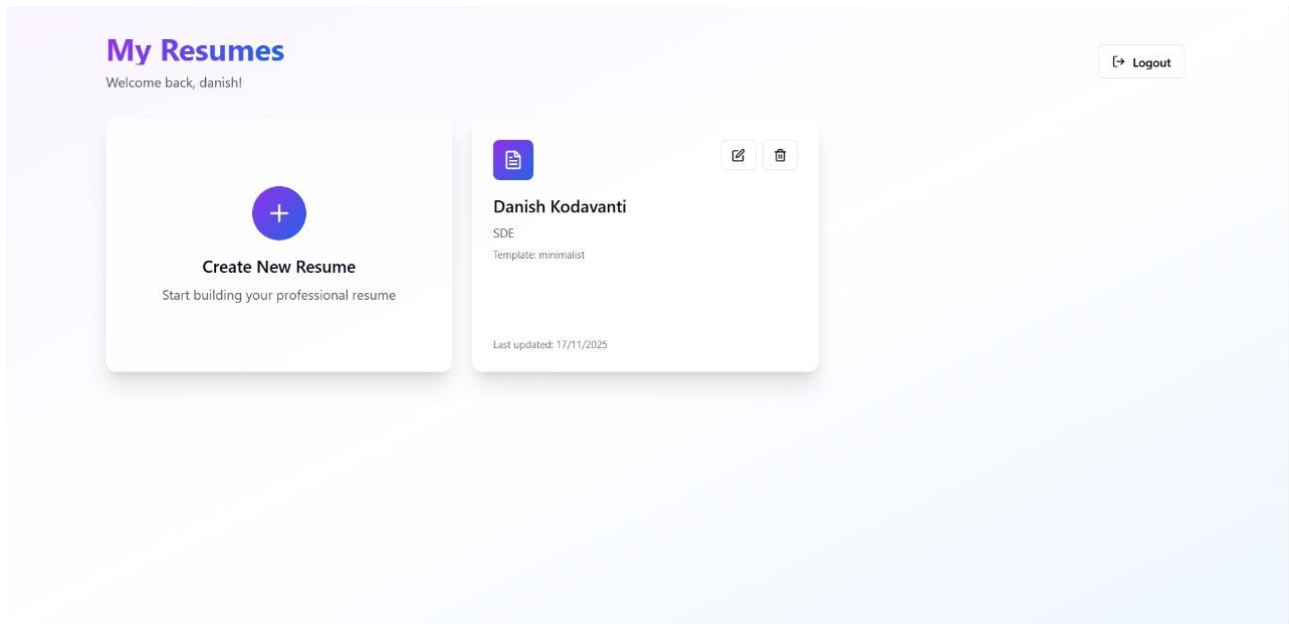
This screen shows the updated "My Resumes" dashboard once the user generates and saves a résumé. The system displays the created resume card, which includes information such as the professional title, template used, last updated date, and choices to edit or delete. This result indicates the system's capacity to store and manage various resumes efficiently.

5.2 Tables Included in the Results

5.2.1 – Manual Resume vs AI-Generated Resume Comparison

Criteria	Manual Resume	AI Resume Architect
Time Taken	45–60 min	3–5 min
Grammar Quality	Average	Excellent (AI-Enhanced)
ATS Score	Low–Medium	High
Keyword Optimization	Manual effort	Automatic
Professional Formatting	Requires skill	Done automatically

6. Conclusion and Future Work

6.1 Conclusion

The AI Resume Architect - Careers with Intelligence effectively shows how artificial intelligence can simplify, improve, and automate the resume-creation process. The technology quickly converts simple user inputs into professionally designed, ATS-friendly resumes by leveraging AI-powered content augmentation, keyword optimization, and intelligent formatting. The findings clearly show that AI-enhanced resumes outperform human-written resumes in terms of clarity, syntax, action verbs, and adherence to industry standards.

The solution also decreased the time needed to create a résumé from roughly an hour to a few minutes, considerably increasing user productivity. The system provides a comprehensive end-to-end solution for job seekers, students, and professionals by incorporating template selection, resume scoring, and export capabilities. Overall, the study demonstrates how AI may help with career development tools and increase the quality and competitiveness of resumes in real-world job applications.

6.2 Future Work

In the future, the AI Resume Architect can be upgraded with more advanced features to improve accuracy, customisation, and user experience. The system can use domain-specific AI models to create resumes suited to certain areas like IT, finance, healthcare, and engineering. Additional enhancements could include automatic job description analysis, in which the system scans a job advertisement and tailors the resume to match the required abilities and keywords. Multilingual functionality can be implemented to generate resumes in regional and international languages, making the product more accessible to a broader audience.

A mobile application version and cloud-based storage might also be added to allow users to create, update, and store numerous resumes from any device. Real-time scoring, live grammar correction, and AI-powered feedback can improve resume quality and the user experience. These additions would dramatically improve the system's usability and effectiveness, establishing it as a comprehensive AI-powered career development platform.

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