SmartResume Generator

Team Name: AI Sparks

Team Members:

- T. Varshitha
- M.V. Joshitha
- J. Rakshitha

Phase-1: Brainstorming & Ideation

Objective:

Develop an AI-driven tool that automates the creation of professional resumes, helping users generate tailored resumes based on personal details, job experience, and career goals.

Key Points:

1. **Problem Statement:**
    - Job seekers struggle to create professional, tailored resumes quickly.
    - Many lack knowledge of resume formatting and optimization.
    - Manual resume customization for each job application is time-consuming.
2. **Proposed Solution:**
    - An AI-powered resume generator that crafts structured resumes based on user input.
    - Automatically highlights key skills, experiences, and achievements relevant to target job roles.
    - Provides industry-specific resume templates for various domains.
3. **Target Users:**
    - University students preparing job applications.
    - Job seekers looking to enhance their professional profiles.
    - Career changers needing customized resumes.
4. **Expected Outcome:**
    - A web-based resume generator that allows users to create polished resumes quickly.
    - Improved job application success rates by providing optimized resume formats.

Phase-2: Requirement Analysis

Objective:

Define the technical and functional requirements for SmartResume Generator.

Key Points:

1. **Technical Requirements:**
    - Programming Language: Python
    - Backend: Flask (for handling user input and generating resumes)
    - Frontend: HTML, CSS
2. **Functional Requirements:**
    - User inputs personal details, job experience, and skills.
    - The AI processes data and generates a customized resume in real-time.
    - Resume templates optimized for different industries (IT and Non-IT).
3. **Constraints & Challenges:**
    - Ensuring high-quality, industry-specific resume content.
    - Handling diverse user inputs and edge cases.
    - Providing a smooth, user-friendly experience.

Phase-3: Project Design

Objective:

Develop the system architecture and user flow.

Key Points:

1. **System Architecture:**
    - User submits details through a web form.
    - Flask processes input and sends it to AI for resume generation.
    - AI generates structured resume content.
    - The resume is formatted and displayed.
2. **User Flow:**
    - Step 1: User enters details like name, contact, skills, experience.
    - Step 2: AI processes input and generates content.
    - Step 3: Resume is displayed.
3. **UI/UX Considerations:**
    - Simple, intuitive interface for easy navigation.
    - Responsive design for desktop.
    - Option to preview and customize resumes.

Phase-4: Project Planning (Agile Methodologies)

Objective:

Break down tasks into sprints for efficient execution.

Sprint Planning with Priorities

Sprint	Task	Priority	Duration	Deadline	Assigned To	Dependencies	Expected Outcome
Sprint 1	Environment Setup & Backend Development	🔴 High	6 hours	Day 1	Member 1	Flask Setup	Backend Functional
Sprint 1	UI Development	🟡 Medium	2 hours	Day 1	Member 2	Backend Setup Done	Basic Web Form Ready

Sprint	Task	Priority	Duration	Deadline	Assigned To	Dependencies	Expected Outcome
Sprint 2	AI Resume Generation	🔴 High	3 hours	Day 1	Member 1 & 2	Backend & UI Ready	Functional Resume Generator
Sprint 2	Error Handling & Debugging	🔴 High	2 hours	Day 1	Member 1 & 3	Backend & UI Inputs	Stable System Responses
Sprint 3	Testing & UI Enhancements	🟡 Medium	3 hours	Day 2	Member 2 & 3	Backend & UI Completed	Polished UI, Bug Fixes
Sprint 3	Final Presentation & Deployment	🟢 Low	1 hour	Day 2	Entire Team	Working Prototype	Ready for Demo

Sprint Planning with Priorities

Sprint 1 – Setup & Integration (Day 1)

🔴 High Priority: Set up the environment & install dependencies.

🔴 High Priority: Develop backend functionalities with Flask.

🟡 Medium Priority: Build a basic UI with input fields.

Sprint 2 – Core Features & Debugging (Day 2)

🔴 High Priority: Implement AI-powered resume generation.

🔴 High Priority: Debug input handling & improve accuracy.

Sprint 3 – Testing, Enhancements & Submission (Day 2)

🟡 Medium Priority: Test system responses, refine UI, & fix UI bugs.

🟢 Low Priority: Final demo preparation & deployment.

Phase-5: Project Development

Objective:

Implement core features of SmartResume Generator.

Key Points:

1. **Technology Stack Used:**
    - Frontend: HTML, CSS
    - Backend: Flask
    - Programming Language: Python
2. **Development Process:**
    - Implement user input forms.
    - Develop logic for AI-powered resume generation.
    - Optimize resume output for clarity and professionalism.
3. **Challenges & Fixes:**
    - Challenge: Ensuring AI-generated content is job-relevant.
        - Fix: Fine-tune prompts and validation mechanisms.
    - Challenge: Formatting resumes correctly across industries.
        - Fix: Use pre-defined industry templates.

Phase-6: Functional & Performance Testing

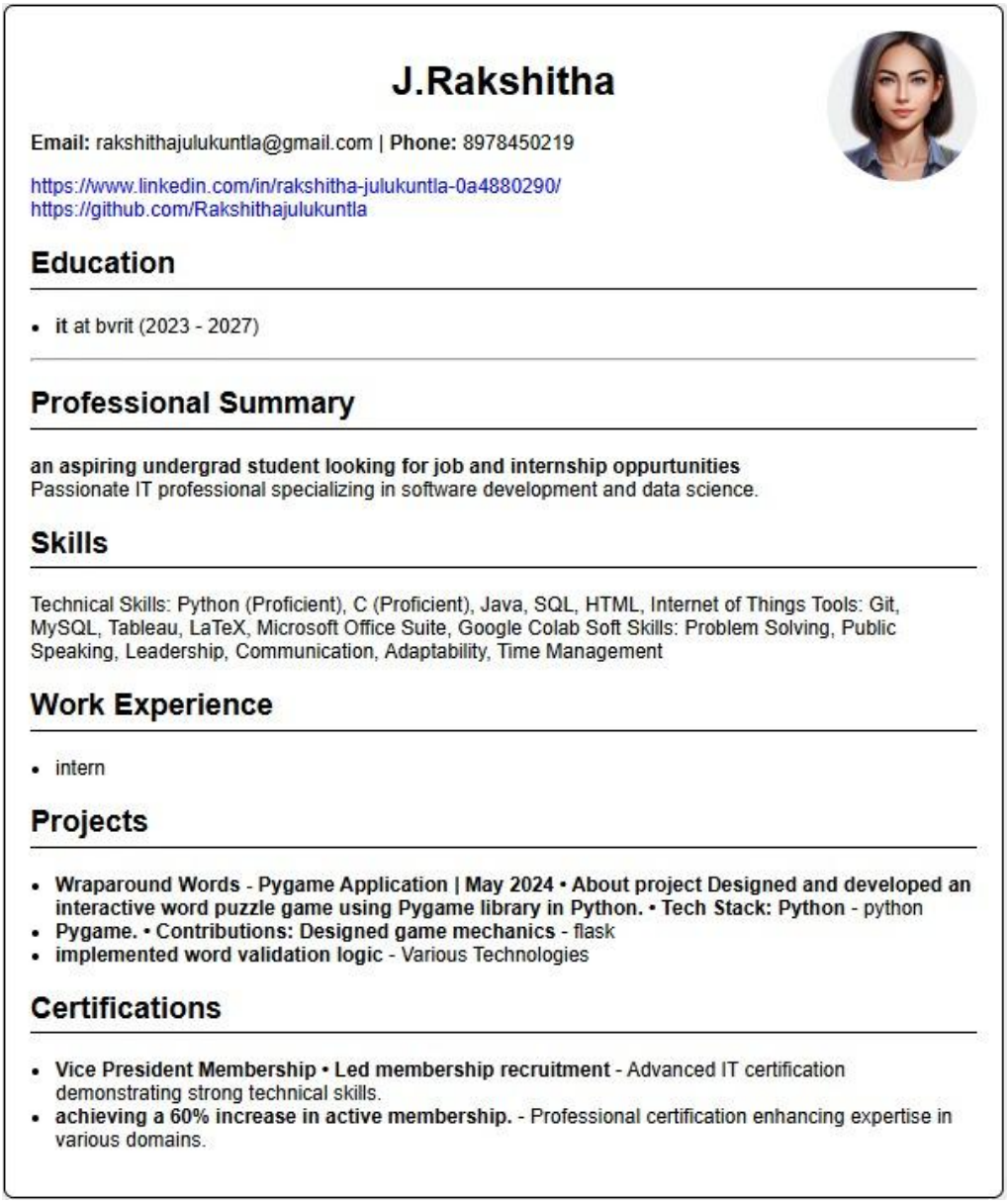
Objective:

Ensure Smart Resume Generator performs as expected.

Test Case ID	Category	Test Scenario	Expected Outcome	Status	Tester
TC-001	Functional Testing	Generate resume for a software engineer	Resume should highlight relevant skills	✅ Passed	Tester 1
TC-002	Functional Testing	Generate resume for a marketing role	Resume should emphasize marketing experience	✅ Passed	Tester 2
TC-003	Performance Testing	Resume generation time under 3s	Resume should be generated quickly	✅ Passed	Tester 3

Test Case ID	Category	Test Scenario	Expected Outcome	Status	Tester
TC-004	Bug Fixes & Improvements	Fix incorrect AI-generated content	Content accuracy should be improved	✅ Fixed	Developer
TC-005	Final Validation	Ensure UI is responsive on mobile	UI should work on all devices	❌ Failed - UI issue on mobiles	Tester 2
TC-006	Deployment Testing	Host on web platform	App should be accessible online	🚀 Deployed	DevOps

Output:



J.Rakshitha

Email: rakshithajulukuntla@gmail.com | **Phone:** 8978450219

https://www.linkedin.com/in/rakshitha-julukuntla-0a4880290/
https://github.com/Rakshithajulukuntla

Education

- **it** at bvrit (2023 - 2027)

Professional Summary

an aspiring undergrad student looking for job and internship oppurtunities
Passionate IT professional specializing in software development and data science.

Skills

Technical Skills: Python (Proficient), C (Proficient), Java, SQL, HTML, Internet of Things Tools: Git, MySQL, Tableau, LaTeX, Microsoft Office Suite, Google Colab Soft Skills: Problem Solving, Public Speaking, Leadership, Communication, Adaptability, Time Management

Work Experience

- intern

Projects

- **Wraparound Words** - **Pygame Application | May 2024 • About project Designed and developed an interactive word puzzle game using Pygame library in Python. • Tech Stack: Python** - python
- **Pygame. • Contributions: Designed game mechanics** - flask
- **implemented word validation logic** - Various Technologies

Certifications

- **Vice President Membership • Led membership recruitment** - Advanced IT certification demonstrating strong technical skills.
- **achieving a 60% increase in active membership.** - Professional certification enhancing expertise in various domains.