
AI Resume Builder & Rating System

Project Proposal – Junior Design Course

Resumate

Project Title: AI Resume Builder & Rating System

Course: CSE299

Student Name:

Instructor: MSRB

University: North South University

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Abstract

The AI Resume Builder and Rating System is designed to assist users in creating professional resumes efficiently.

The system integrates **artificial intelligence (AI)** for content generation and evaluating resumes. It allows automatic scoring, feedback, and PDF exports while providing an installable interface via **PWA** or **APK**.

This project demonstrates the intersection of web development, AI, and practical software deployment in a junior-level academic setting.

1. Introduction

Creating professional resumes can be challenging for students and job seekers.

Traditional resume builders focus on formatting but lack **intelligent content assessment**.

The proposed system leverages AI for automated **content generation, scoring, and suggestion of improvements**, providing a user-friendly interface to create, evaluate, and export resumes.

2. Problem Statement

- Traditional resume builders lack AI-based evaluation.
- Users often struggle to match resumes to job descriptions.
- Manual resume review is time-consuming and subjective.

Solution: Develop a web application that uses AI to **generate content, score resumes, and provide suggestions** while remaining **installable and accessible offline**.

3. Project Objectives

1. **Resume Creation:** Interactive web interface using Laravel Blade and Tailwinds.
 2. **Resume Rating:** AI scoring system using Google Gemini API .
 3. **PDF Export:** Generate downloadable resumes.
 4. **Deployment:** Make the app installable via PWA or APK.
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4. Methodology

4.1 System Architecture

User Interface (Laravel Blade / Vue.js)



Laravel Backend (PHP)



AI Layer (Google Gemini API)



Database (MySQL)



Output (Score, Feedback, PDF)

5. Developer Stack

Layer	Tool / Technology	Purpose	Reference
Frontend	Laravel Blade / Vue.js /	Forms, interface,	(Laravel Docs, 2024)
	Bootstrap	responsive design	
Backend	Laravel PHP	Main application logic	(Otwell, 2023)
Database	MySQL	Store resumes & ratings	(MySQL Dev Team, 2024)
AI Generation	Google Gemini API	Resume content creation	(Google AI Studio, 2025)
AI Rating	Gemini flash 2.5	Scoring and feedback	

Installable App PWA / Mobile App Desktop-like experience

Version Control Git / GitHub Collaboration & versioning (Git SCM, 2024)

6. Expected Outcomes

- Fully functional AI-assisted resume builder
- Automatic resume scoring & feedback
- PDF export capability
- Web app and installable desktop experience
- Demonstration of **AI integration in web development**

7. Conclusion

The project demonstrates the integration of **web frameworks and AI** to provide intelligent resume assistance.

It combines **practical usability, academic rigor, and modern software development practices**, making it suitable for a **junior-level course submission**.

The final product will be both **web-based** and native **android app**, allowing for real-world demonstration of AI-enhanced productivity tools.

