

# SMART RESUME BUILDER WITH AI SUGGESTIONS

## *Internship Project Completion Report*

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### Introduction

The Smart Resume Builder with AI Suggestions is a web-based application developed to simplify the process of creating a professional resume. The project integrates Artificial Intelligence to analyze and enhance resume content dynamically. It enables users to input, preview, and export their resumes while receiving real-time improvement recommendations. This project was developed as part of the internship to demonstrate full-stack development skills combined with modern AI integration.

### Abstract

This project focuses on automating resume creation and improvement using AI technologies. Users can easily design and format resumes through a React-based interface, while a Node.js backend ensures smooth data flow and management. AI suggestions powered by OpenAI help improve phrasing, tone, and structure, enabling users to create more compelling and job-ready resumes. The final system supports live preview, responsive design, and professional PDF export.

### Tools Used

- React.js – Developed dynamic and user-friendly front-end components.
- Node.js – Handled backend logic and API integrations.
- MongoDB – Managed user data and stored resume information.
- Tailwind CSS – Provided responsive and modern design aesthetics.
- OpenAI API (Free Tier) – Delivered intelligent suggestions for improving resume quality.

### Steps Involved in Building the Project

1. Planned the architecture for the full-stack system and designed UI mockups.
2. Built front-end forms using React.js for capturing user input.
3. Developed a Node.js and Express backend to connect with MongoDB.
4. Integrated the OpenAI API to analyze and suggest content improvements.
5. Implemented real-time resume preview and formatting using Tailwind CSS.
6. Added export functionality for PDF generation with print-optimized styling.
7. Conducted testing and debugging to ensure seamless performance across devices.

### Conclusion

The Smart Resume Builder with AI Suggestions successfully achieves its objective of providing an intelligent, user-centric solution for resume creation. The integration of AI with full-stack web development technologies demonstrates the effectiveness of automation in enhancing productivity. The project offers a modern, efficient, and scalable system that can be further expanded with advanced features like template customization and multi-language support. This project marks a significant learning experience in combining AI and web technologies to address real-world challenges.