

ELEVEN LABS

SMART RESUME BUILDER WITH AI SUGGESTIONS

A MINI PROJECT REPORT

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ABSTRACT

The Smart Resume Builder with AI Suggestions is a modern web application that leverages Artificial Intelligence to assist users in creating job-ready resumes. Unlike traditional resume templates, this system provides real-time suggestions to improve grammar, structure, and phrasing using the OpenAI API. It includes features such as dynamic resume preview, PDF export, and optional user login for storing multiple resume versions. This project demonstrates full-stack development skills, integrating React.js, Node.js, Express.js, MongoDB, and Tailwind CSS along with AI-powered writing improvements.

INTRODUCTION

In today's competitive job market, first impressions are often based on resumes. Many individuals struggle to present their skills in a professional and structured manner. The Smart Resume Builder provides a solution by offering AI-assisted improvements that enhance readability, tone, and clarity, enabling users to generate professional resumes without prior experience.

OBJECTIVE

The primary objective of this project is to design and develop a web-based application that enables users to:

- Create professional resumes effortlessly.
- Receive real-time AI suggestions.
- Preview resume layout dynamically.
- Export final resumes as PDF.
- Store and retrieve multiple resume drafts.

TECHNOLOGIES USED

React.js - Frontend UI for dynamic resume preview.

Node.js - Backend server for processing requests.

Express.js - Middleware for API creation.

MongoDB - Database for user details and resume drafts.

Tailwind CSS - UI styling and responsive interface.

OpenAI API - AI-based suggestion engine.

HTML, CSS, JavaScript - Core development languages.

SYSTEM ARCHITECTURE

Frontend (React.js): Collects user data and dynamically displays resume layout.

Backend (Node.js + Express): Handles authentication, data transfer, and API calls.

Database (MongoDB): Stores user profiles, drafts, and modifications.

AI Integration (OpenAI API): Suggests improvements for clarity and professionalism.

KEY FEATURES

- User Input Form
- Live Resume Preview
- AI Suggestions Button
- PDF Export Functionality
- Optional User Login System

- Responsive User Interface

ADVANTAGES

- Time-saving resume formatting.
- Enhanced resume professionalism.
- User-friendly for non-technical individuals.
- AI-enhanced readability for employers.

FUTURE ENHANCEMENTS

- AI-based job matching.
- Resume theme customization.
- Multi-language support.
- LinkedIn integration.
- Voice-based form filling.

APPLICATIONS

- Job seekers
- Students and freshers
- Career counselling institutes
- Digital resume building platforms

WORKFLOW

1. User enters personal and professional details.
2. Resume preview updates in real-time.
3. User clicks AI Suggest for improvements.
4. AI provides recommendations.
5. User updates content and downloads PDF.

CONCLUSION

The Smart Resume Builder with AI Suggestions provides a seamless and intelligent platform for improving resume quality. By integrating modern full-stack development technologies with AI-based suggestions, this project enhances employability and reduces the complexity of resume creation.

REFERENCES

React.js Documentation

Node.js Documentation

MongoDB Documentation

Tailwind CSS Documentation

OpenAI API Documentation