

Smart Resume Builder with AI Suggestions

Introduction

The Smart Resume Builder with AI Suggestions is a web-based tool that helps users create professional resumes while receiving real-time improvement suggestions powered by AI. The aim is to make resume building more intuitive, efficient, and effective using modern web technologies.

Abstract

This project leverages React.js for the frontend and Node.js for the backend. It integrates the OpenAI GPT-3.5 API to analyze and enhance resume content, providing suggestions to improve clarity and professionalism. The app also supports PDF export and resume preview functionality, enabling users to download high-quality printable resumes.

Tools Used

- React.js
- Node.js
- Express.js
- MongoDB
- Tailwind CSS
- OpenAI GPT-3.5 API
- html2pdf.js / react-pdf (for PDF export)

Steps Involved in Building the Project

1. Set up the backend using Node.js and Express.
2. Integrate OpenAI API to generate content suggestions.
3. Build a responsive frontend with React.js and Tailwind CSS.
4. Design input forms for different resume sections.
5. Connect frontend to backend using API endpoints.
6. Implement MongoDB storage for saving user data.
7. Add PDF export and resume preview features.
8. Test and optimize the user interface and workflow.

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Conclusion

The Smart Resume Builder streamlines the resume creation process by incorporating intelligent suggestions and a clean user interface. It demonstrates the powerful synergy between AI and web development, offering a practical solution for job seekers. Future enhancements could include authentication, job-specific resume tailoring, and multiple design templates.