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## CAREER CRAFT CONNECT

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### ABSTRACT :

Career Craft Connect is an intelligent web-based platform designed to automate resume generation and provide personalized job recommendations. Users can input their personal, academic, and professional details through a structured, interactive form. The system processes this information and dynamically generates professional resumes using predefined templates. With the help of `html2pdf.js`, users can instantly download their resumes in polished PDF format. The platform also analyzes user-entered skills and qualifications to suggest relevant job opportunities. These suggestions are generated using either rule-based logic or lightweight AI algorithms for increased accuracy. The interface is fully responsive, ensuring a seamless experience across all devices. Local storage or optional backend integration ensures secure handling of user data. Career Craft Connect simplifies the job-seeking workflow by combining two key functions—resume building and intelligent job matching. It is an ideal tool for students, graduates, and professionals aiming to accelerate their career journeys. In addition to resume creation, users benefit from real-time preview and editing functionality, allowing them to make changes instantly. The job recommendation engine helps reduce time spent searching across multiple job portals by curating roles aligned to user profiles. The system is scalable and can be enhanced with cloud hosting, database storage, and external job APIs. This integration ensures that the platform evolves with user needs and labor market demands. Overall, Career Craft Connect bridges the gap between ambition and opportunity through technology-driven career solutions.

### Introduction

In the modern employment landscape, where competition is fierce and digital presence is critical, job seekers must present themselves in the most professional and efficient manner possible. A well-structured resume is often the first impression a candidate makes on a potential employer, making its quality and relevance essential. Simultaneously, identifying the right job opportunities remains a time-consuming task, requiring users to browse through multiple platforms without intelligent filters or matching systems. Many individuals, especially fresh graduates, lack the tools or guidance to create industry-standard resumes and often miss out on suitable job openings. Traditional resume builders provide limited templates and static formats, while job portals typically offer generic recommendations based on minimal profile data. These disconnected systems require users to switch between platforms, leading to inefficiencies and redundant efforts. Career Craft Connect is introduced as a comprehensive solution that bridges this gap by combining automated resume generation with AI-based job recommendation features. This web-based platform allows users to enter their personal, academic, and professional information through a user-friendly interface. The data is mapped into modern, professionally designed templates and rendered dynamically for real-time preview. Users can download their resumes in PDF format with a single click using `html2pdf.js`. Additionally, the system analyzes user-entered skills and qualifications to recommend suitable job roles based on predefined criteria or intelligent filtering algorithms. Designed with scalability, accessibility, and usability in mind, Career Craft Connect streamlines the entire job-seeking process from resume creation to job discovery.

### Objective

- To develop an automated resume builder that collects structured user input and generates professional, ATS-friendly resumes using predefined templates.
- To implement a job recommendation system that analyzes user skills, qualifications, and experience to suggest relevant job roles through rule-based or AI-based filtering.
- To provide real-time resume preview and editing functionality, allowing users to instantly view and modify their resume content before downloading.
- To enable PDF export of resumes using `html2pdf.js`, ensuring resumes are consistently formatted and easily shareable.
- To build a responsive, user-friendly platform that integrates resume creation and job suggestions into a seamless, efficient job-seeking workflow.

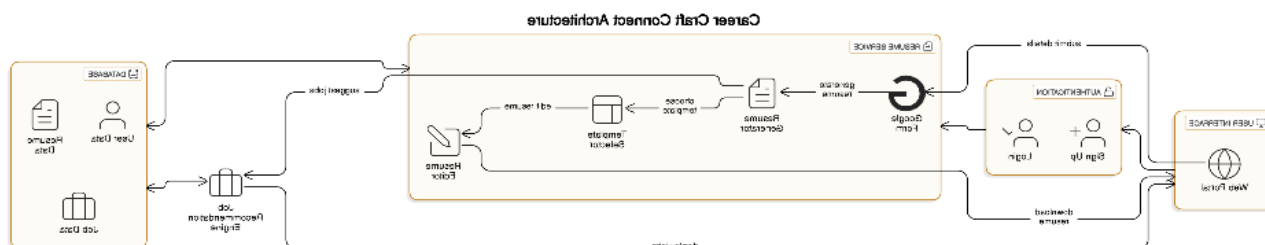
## Methodology

1. **System Architecture:** The platform uses modern web technologies, combining a responsive front-end (React.js) and a backend (Node.js or Python) for smooth user interaction and secure data processing.
2. **Resume Generation:** Users input their information via a Google Form, and the system automatically populates this data into customizable resume templates, allowing for easy real-time editing and preview.
3. **AI Job Recommendation:** The system analyzes user profiles using AI to match their skills and experience with relevant job opportunities, ensuring personalized job suggestions.
4. **PDF Export & Real-Time Editing:** Users can preview and edit their resume in real-time before downloading it as a high-quality PDF, ensuring the resume is tailored to their needs.
5. **Cross-Device Compatibility:** The platform is designed to work seamlessly across all devices, from desktops to mobile phones, providing an optimized experience for users.
6. **Cloud Deployment & Security:** The system is hosted on a secure cloud platform, ensuring scalability, data security, and reliable performance, with built-in user authentication and encryption for sensitive information.

## Results and Discussion

Career Craft Connect was successfully developed and tested to automate resume generation and provide relevant job recommendations. Users were able to enter their details through a structured form and view real-time resume previews using selected templates. The system generated professional, well-formatted resumes in PDF format using html2pdf.js with consistent styling. Job suggestions based on user skills and qualifications were displayed dynamically, demonstrating effective rule-based filtering. The application was responsive across various devices and performed reliably during testing. Feedback from users indicated high satisfaction with the ease of use and time saved. The resume templates met design expectations and were compatible with Applicant Tracking Systems (ATS). The job suggestion module improved application targeting by matching user skills to predefined job roles. Overall, the system achieved its objective of simplifying the job-seeking process through automation and personalization.

The evaluation results confirmed that Career Craft Connect effectively bridges the gap between automated resume creation and personalized job searching, offering a streamlined, user-friendly platform that enhances the overall job application process.



## Conclusion

Career Craft Connect successfully demonstrates a modern solution to the challenges faced by job seekers in creating resumes and finding relevant employment opportunities. By integrating resume generation and AI-based job recommendations into a single platform, the system minimizes manual effort, reduces redundancy, and enhances user efficiency. Users can generate professional, ATS-friendly resumes through structured data input and download them in PDF format using a real-time preview interface. The intelligent job recommendation engine ensures that users are matched with job roles aligned with their skills and qualifications. Built with user-centric design and scalable architecture, Career Craft Connect streamlines the entire career application process from profile creation to opportunity discovery. The platform lays a strong foundation for future enhancements such as advanced AI matching, resume scoring, and job application automation.

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