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ResumeCraft: A Machine Learning-powered Web Platform for Resume Building

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Abstract: The competitive job market necessitates well-crafted resumes that resonate with both human recruiters and Applicant Tracking Systems (ATS). This paper introduces ResumeCraft, a web-based platform empowering users to build strong resumes and optimize them for ATS compatibility. ResumeCraft leverages Machine Learning (ML) for data analysis and user guidance, while the user interface is built with Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), and JavaScript for a user-friendly experience. The system allows users to input their personal and professional details through a series of form fields, and provides a real-time preview of the resume design as the user inputs their data. The resume generator uses JavaScript to dynamically populate the preview with the user's input, and allows users to select from a range of pre-designed templates and color schemes to customize the look and feel of their resume. It processes the user input and generates a downloadable Portable Document Format (PDF) of the final resume. The platform analyzes user-provided information through ML models, offering suggestions on skill extraction, keyword matching, and action verb usage. This combination empowers users to create impactful resumes that are more likely to pass through ATS filters and reach human reviewers.

Keywords: Resume Builder, Resume, HTML, Javascript, NLP, Analytics, AI, ML, Parsing

I. INTRODUCTION

An online resume builder is a software designed to simplify the process of creating professional resumes for individuals. It offers an efficient way to craft resumes by providing essential resume elements and guiding users through the process. This user-friendly system minimizes confusion, especially for fresh graduates or those unfamiliar with resume creation. Users simply fill out a form with necessary information such as personal details, education, skills, and interests. The system then organizes the provided information to generate a well-structured resume automatically. [1]

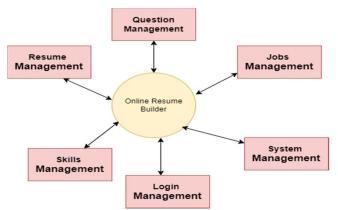


Fig.1 Resume Builder Data-Flow Diagram

In today's competitive job market, resumes have become indispensable, serving as the first impression for potential employers. A well-crafted resume can significantly impact your chances of securing an interview. The goal of this resume builder is to provide users with professional-looking resumes without the stress of deciding what to include. It offers flexibility and streamlines the process of creating a tailored resume based on qualifications. Users simply fill out a form covering personal details, education, skills, and more, and the system automatically generates a structured resume.[2]

Creating a resume can be daunting for professionals across industries. This project, an online resume builder, simplifies the process using web development technologies like HTML, CSS, and JS.[3]



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Matching job seekers with suitable opportunities has become increasingly complex. To address this, we introduce an advanced system integrating Natural Language Processing (NLP), Machine Learning, and Recommender Systems. This system enhances the career placement process for job seekers and employers alike.[4]

The "AI Resume Analyzer" prioritizes user security and ease of use, starting with secure registration and tailored experiences for freshers and experienced professionals. NLP techniques parse uploaded resumes to extract key information, while machine learning models accurately categorize candidates.[5]

At the core of the system lies its job recommendation engine, utilizing various filtering techniques to suggest roles aligned with a candidate's skills and experience. Its adaptability ensures relevance in a constantly evolving job market. Stringent measures are in place to protect user data, maintaining compliance with data protection laws.[6]

This innovative approach aims to improve hiring efficiency by leveraging AI and recommendation systems, facilitating smoother transitions into the workforce.[7]

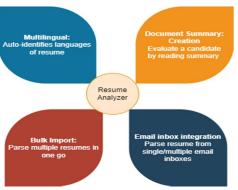


Fig.2 Resume Analyzer features

The AI resume analyzer addresses the challenges inherent in traditional recruitment processes. With HR departments often overwhelmed by a large influx of job applications, thoroughly reviewing each resume becomes laborious and time-consuming. This can lead to inefficiencies, the potential oversight of qualified candidates, and the perpetuation of unconscious biases in hiring decisions.[8]

In response, an intelligent recruitment system leveraging machine learning algorithms proves invaluable. Such a system can assess candidates' resumes, including their skills, work history, and interests, and match them with job requirements and company culture. This ensures candidates are placed in roles that align with their skills and interests, fostering job satisfaction and enhancing company retention rates. Additionally, it streamlines the recruitment process by automatically filtering out irrelevant resumes and identifying the most suitable candidates for consideration.[9]

The objectives of an AI resume analyzer encompass several critical goals in talent acquisition and recruitment. These tools are designed to efficiently handle a large volume of resumes, speeding up initial screening processes and conserving valuable time and resources. Their primary aim is to align the qualifications, skills, and experiences outlined in resumes with job description prerequisites, thus identifying the most suitable candidates.[10]

II. LITERATURE REVIEW

Rinki Tyagi et al. (2020)[10] introduced an Android application aimed at generating formal format resumes. Users can select from a variety of templates and save their resumes in different formats. While the application is free and easy to use, it requires internet connectivity and is exclusive to the Android platform. Its primary benefits include time-saving features and a focus on content creation, with simple application creation and modification processes.

Bharti Kungwani et al. (2021)[11] developed the "Analytical Resume Builder," a web application offering analyzed statistics and resumes of fellow graduates. This enables users to compare their profiles, gain insights into industry trends, and stay informed about upcoming job opportunities. Particularly beneficial for recent graduates or those lacking resume expertise or time, this platform streamlines resume creation with its user-friendly interface.



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Mgarbi et al. (2023)[16] designed an application centered on crafting visually appealing resumes using diverse templates and fonts. Users can also include links to their online profiles, such as LinkedIn and GitHub. While the application is user-friendly and free, it lacks advanced features like skill suggestions or personalized feedback, prioritizing content focus and time-saving attributes.

Bhatt et al. (2024)[14] emphasized the significance of leveraging new technologies, such as the internet, for knowledge management and information dissemination in education. Their project, the Online Training and Placement System, aimed to reduce manual errors, save time, and provide instant SMS notifications to students.

Vivian Lai et al. (2016)[1] highlighted the evolving landscape of job search and candidate evaluation with the increasing reliance on the Web for uploading and creating online resumes. Resumes serve as the primary source of information about candidates and the initial evaluation criterion in candidate selection.

Víctor Fresno et al. (2016)[2] discussed the importance of document representation in document clustering tasks, introducing a fuzzy term weighting approach that capitalizes on HTML structure for enhanced clustering performance.

Jaiswal et al. (2024)[15] noted the exponential growth of information on the World Wide Web and the inconvenience of current human intervention requirements for leveraging this wealth of information.

Zied Jaoua et al. (2012)[3] proposed an algorithm for robust reception of compressed HTML files over noisy mobile radio channels, assuming standard compliance of both source encoders and transmission systems.

Sharma et al. (2021)[17] emphasized the increasing popularity of mobile browsing and the challenges posed by limited memory capacity and bandwidth for rendering HTML documents on mobile browsers.

Ujjal Marjit et al. (2012)[4] suggested utilizing linked data to recover CV information, developing an online Chinese resume parser that extracted data using a rule-based statistical algorithm.

Tejaswini et al. (2022)[13] developed a comprehensive CV analysis system focusing on block analysis of CV documents using pattern matching and multi-level information identification. They aimed to convert CVs into an ontological structure for better information extraction using the WordNet calculation of similarity.

Title Paper	Author	Methodology	Merits	Demerits
Resume Builder	Rinki Tyagi et al.	Recognize the essential features	Open Source Time	Lack of customization.
Application		and capabilities necessary in the	saver	
		resume builder to meet user		
		requirements and adhere to		
		industry norms.		
Resume Generation	Pooja Bhosale et al.	Define the extent of the resume		
System		builder, encompassing its intended	Registration	Limited Flexibility.
		audience, applicable industries,	mandatory	Industry specific
		and range of job categories it will		limitations.
		serve.		
Resume Builder	Arnav Kumar et al.	Create a user-friendly and intuitive		1 2
		interface for the resume builder,		technology.
		guaranteeing straightforward		
		navigation and input options.		
	-	tIn the company module's resume	-	
Application	al.	selection process, we employ a	notified by the SMS	Option.
		Relevance Ranking Algorithm.	instantly	
Towards an	D.Celik et al.	The objective of resume screening	Removes bias by	Implementation and
Information		is to pinpoint the most qualified	focusing on	maintenance can be
Extraction system		candidates for a role and to	qualifications and skills	expensive, especially for
based on ontology to		provide users with their resume	rather than personal	smaller organizations.
match resumes and		score along with areas in need of		
jobs		enhancement.	Reduces the likelihood	
			of overlooking qualified	
			candidates due to	
			human error.	

TABLE 1: LITERATURE SURVEY



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Understand Short Texts by Harvesting and AnalyzingWen Hua et al.Resume screeningscreening isData-DrivenInsights: Accessing and ML technologyfirms, where they valuableML insightscan provide personaldata on resu technologySemantic KnowledgeAccessing technologyfirms, where they valuablethey valuableinsights intomay raiseprivacy privacy technologySemantic KnowledgeAccessing technologyand categorizing them based on their process optimizationand GDPR or CCPA.
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Semantic Knowledge handle a significant volume of hiring trends, candiate compliance issues, such resumes, assessing and qualifications and GDPR or CCPA.
resumes, assessing and qualifications and GDPR or CCPA.
categorizing them based on their process optimization
relevance to the job description
and overall strength.
Architecture of Bichitra Mandal Creating a system suitable for AI analyzers can assess The automated nature of
efficient word large-scale job fairs, where manylanguage analyzers can lead to a
processing using applicants aim to match with asproficiency, ensuring of the human touch in
Hadoop MapReduc e many job openings offered by that candidates meetinitial screening pro-
for big Data companies as feasible. The system language requirements potentially missing our
Application s evaluates individual for a particular job, candidates with
competitiveness and personality which is crucial fortraditional backgrounds
traits, providing job vacancypositions that requiremight bring valuable s
suggestions based on the electronic strong communication and
resumes submitted by applicants. skills. perspectives.
Research Issues in Ozgur Uluso Y et al. The advancement of artificial AI maintains aAI analyzers may
Real-Time Database intelligence (AI) technology is consistent evaluation adequately account
Systems progressing swiftly and integrating process, reducing the unique or evolving
into everyday activities. AI has therisk of human error orrequirements, indu
potential to assist individuals invariability in resumespecific terminology,
various workplace settings. screening. variations in res
formatting, potent
causing qualified candid
to be overlooked.

III.PROPOSED SYSYTEM

A. Proposed Statement

The current recruitment landscape faces inefficiencies for both candidates and employers. Traditional resume builders lack flexibility, forcing applicants into rigid formats. Additionally, screening methods employed by many large technology companies prioritize high-volume filtering at the expense of transparency. This lack of feedback leaves rejected candidates unsure of how to improve their applications, hindering their future prospects.

Our solution bridges this critical gap by offering a more comprehensive approach. Our system allows candidates to upload resumes in any format, utilizing advanced parsing technology to extract relevant skills and experience. Furthermore, with a candidate's explicit consent, we can integrate data from their social profiles (think professional online presence like LinkedIn) to create a richer picture of their qualifications. This empowers companies to identify the best-matched talent while providing valuable feedback to applicants, enabling them to refine their resumes for future opportunities.

B. Proposed Work

This revamped resume builder streamlines the job hunt for both candidates and recruiters. Users can create accounts with usernames, passwords, emails, or even Google logins. Existing users can securely access their profiles. After a welcoming introduction, users can craft resumes by filling in sections for personal bios (optional), contact details, education, work history, skills, and optional language proficiency. The platform allows for effortless downloads in DOC, PDF, and TXT formats. Excitingly, the website hints at future innovations, including a "smart and automated Resume Evaluation" system. This AI-powered feature could utilize Natural Language Processing (NLP) to analyze resumes, pinpoint relevant skills, and leverage classification techniques to match resumes against specific job postings. By implementing these features, the website could become a powerful tool for simplifying both resume creation and the screening process.



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IV.METHODOLOGY

In essence, a system architecture is a blueprint. It outlines how a system will be built, how its components work together, and how it will function as a whole. An architecture description takes this blueprint a step further, providing a detailed document that allows experts to analyze and understand the system's structure and behavior.

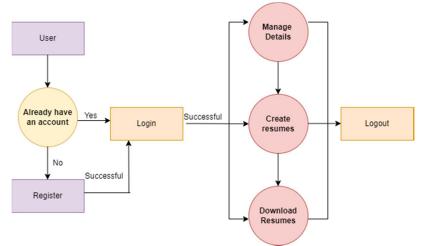


Fig. 3 Dataflow diagram of Resume Builder

Fig.3 shows this Entity-Relationship (ER) Diagram acts as a blueprint for the core functionalities of the resume builder system. It visually maps out the relationships between various elements crucial for crafting a compelling resume. Imagine it as a roadmap guiding you through the resume creation process.

- Entities: These are the key components of the system, represented by rectangles in the diagram. They might include Users, Skills, Work Experience, Education, Resumes, and even Salary Expectations. Each entity holds specific information relevant to your resume.
- 2) *Relationships:* These are the connections between the entities, depicted by lines in the diagram. For example, a User might possess various Skills, and a Resume might showcase relevant Work Experience and Education. Understanding these relationships is crucial for building a well-structured resume.
- *3) Attributes:* These are the specific details associated with each entity. Within the Skills entity, attributes might include the skill name, proficiency level, and relevant keywords. Similarly, a Work Experience entity might have attributes like company name, job title, dates of employment, and key accomplishments.

By analyzing these entities, relationships, and attributes, the ER Diagram allows us to understand how different functionalities within the resume builder work together. Imagine adding a new skill to your profile - the ER Diagram would show how this information connects to your existing skills and ultimately gets integrated into your resume. Overall, the ER Diagram provides a clear picture of how the resume builder system operates, helping you navigate its features and build an effective resume.



Fig.4 Dataflow Diagram for Level 0 Online Resume Builder

Fig.4 shows the Level 0 Data Flow Diagram offers a comprehensive overview of ResumeCraft, our online resume building platform. This high-level view depicts the system as a single entity interacting with two external parties: Users and Resumes. Users provide the raw materials – their information and career aspirations – which flow into the system. ResumeCraft, leveraging its machine learning capabilities, processes this data and crafts a compelling resume document. This finished resume is then delivered back to the User, ready to be used in their job search. This Level 0 diagram provides a clear and concise picture of the core functionality of ResumeCraft, allowing stakeholders to grasp the system's essence at a glance.



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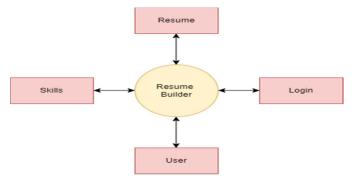


Fig.5 Dataflow Diagram for Level 1 Online Resume Builder

Fig.5 shows while the Level 0 Data Flow Diagram offered a high-level perspective, the Level 1 diagram dives deeper, revealing the intricate processes within ResumeCraft. This detailed view showcases the internal functionalities that transform user input into a polished resume. Here, we see Users interacting with various modules:

- 1) Registration & Login: This module facilitates user onboarding and access to the platform.
- 2) Profile Management: Users can input personal details, skills, and work experience.
- 3) Template Selection: Users can choose a pre-designed template or customize their resume layout.
- 4) *Machine Learning Engine:* This core component analyzes user data and suggests relevant keywords, formatting improvements, and potentially even career path recommendations.
- 5) Resume Generation: Based on user input and machine learning insights, a customized resume is created.
- 6) Download & Share: Users can download their resume in various formats or share it electronically.

This Level 1 breakdown provides a clearer understanding of how ResumeCraft orchestrates its magic behind the scenes. It highlights the specific processes that contribute to building a strong resume, allowing stakeholders to analyze and optimize the user experience.

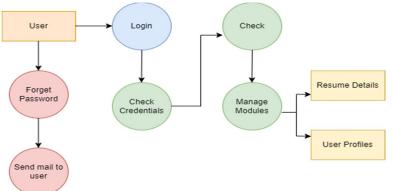


Fig.6 Dataflow Diagram for Level 2 Online Resume Builder

Fig.6 shows The Data Flow Diagram (DFD) serves as an invaluable roadmap for comprehending the core functionalities of the resume builder system. It offers a high-level perspective, focusing on the big picture of how information flows within the system. This approach provides several key benefits:

- Clear Visualization: Unlike getting tangled in technical details, the DFD presents a clear visual representation of the system's information flow. This makes it easy for stakeholders, even those without a technical background, to grasp the resume builder's core functionalities.
- 2) Focus on Essentials: By omitting intricate details, the DFD concentrates on the essential pathways of information. This allows stakeholders to understand how user input interacts with the system's components and ultimately translates into a finished resume.
- *3)* Starting Point for Analysis: The DFD serves as a springboard for further analysis. By understanding the information flow at a high level, developers and designers can delve deeper into each component, optimize processes, and identify potential bottlenecks for improvement.



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4) *Communication Tool:* The DFD acts as a powerful communication tool between technical and non-technical stakeholders. It facilitates a shared understanding of the resume builder's functionality, enabling clear discussions and collaborative decision-making.

In essence, the DFD provides a foundational understanding of the resume builder system's information flow, paving the way for further exploration and refinement.

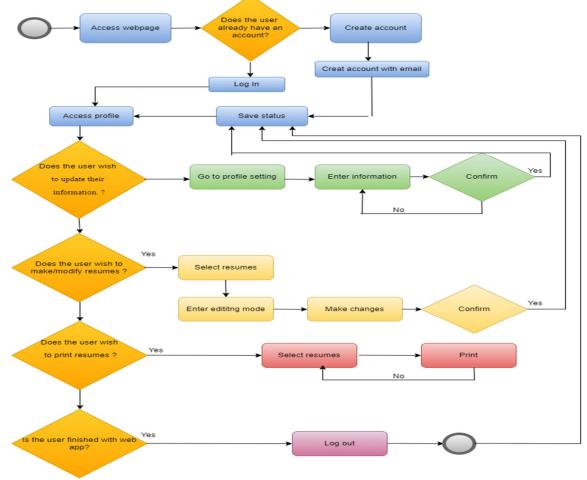


Fig.7 Activity Diagram showing how the overall resume builder works

Fig.7 shows the methodology employed in developing the Intelligent Resume Analyzer system encompasses several critical stages, including research design, data collection, analysis, and evaluation.

- The research design adheres to principles of machine learning and natural language processing, involving the collection and analysis of a diverse set of resumes to identify patterns. The system employs supervised learning, using annotated resumes for training.
- 2) Data collection involves sourcing resumes from various platforms in different formats, followed by preprocessing to remove extraneous information. In the data analysis phase, resumes undergo natural language processing to extract relevant features like skills and experience. Machine learning algorithms then scrutinize these features to predict a resume's suitability for specific job positions. The system is rigorously tested on a large resume dataset to refine its performance.
- 3) Evaluation assesses the system's accuracy in predicting resume suitability using annotated test resumes categorized by job position. Results demonstrate the system's effectiveness across diverse job positions. Overall, the methodology involves meticulous research design, comprehensive data collection, and advanced analysis techniques, leveraging machine learning and natural language processing to provide constructive feedback for resume enhancement. Evaluation confirms the system's high accuracy in predicting resume suitability for various job roles.



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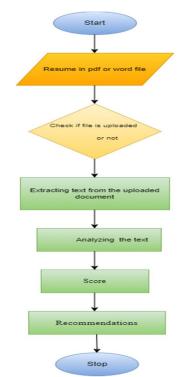


Fig.8 Activity diagram of Resume Analyzer

Fig.8 shows the system works by first collecting your information and displaying it back to you. Then, it analyzes your skills and recommends suitable job types. Based on this analysis, it identifies any skill gaps and saves this information. Next, it considers the length of your resume and your skills to generate a rating, which is then displayed.

Table 2: The Power of Automation	. How Resume Builders	Enhance Competitiveness
Table 2: The Power of Automation	I. now Resume Dunders	Enhance Competitiveness

Feature	Resume Builder & Analyzer	Traditional Techniques
Speed (Avg. time to create resume)	15-30 minutes	1-2 hours+
Customization (Number of template options)	10-50+	Limited (Generic formats)
Keyword Optimization (Analyzes for relevant keywords)	Yes (Suggests & highlights)	Manual research & inclusion
ATS Compatibility (Checks for Applicant Tracking System friendliness)	Yes (Identifies potential issues)	No direct check
Feedback & Analysis (Provides feedback on content & structure)	Yes (Scoring & suggestions)	Limited self-assessment
Collaboration (Allows for real-time collaboration)	Yes (Some offer shared editing)	No (Individual creation)
Cost	Free (Basic features)	\$0 - \$100+ (Professional services)
Data Security	Varies (Check provider's policy)	Vulnerable to physical loss/damage



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The system then delves deeper by recommending specific skills you might lack and provides learning resources to help you acquire them. Finally, it analyzes your entire resume and assigns a score. Based on this score, it offers suggestions for improvement, such as adding a career objective, hobbies list, or other sections to make your resume more visually appealing. Additionally, the system provides interview tips and advice on answering common interview questions to boost your overall interview performance.

V. ANALYSIS AND MODEL TESTING

The functionalities of each module in this system.

Table 3: User Management Modules

Login module	Provides the functionality for new users to register and existing users to log in.	
Dashboard module	Gives you complete control over your resumes! You can easily edit existing ones, add	
	new resumes, or remove any that you don't need anymore. The same goes for	
	templates - add, edit, or remove them to fit your preferences.	
Account module	Stores and manages your profile information, like photos, phone numbers, and email	
	addresses. This makes updating your profile quick and easy	

The Resume Analyzer uses powerful technology to analyze resumes and help job seekers land their dream jobs. By building a model of the job market through analyzing job postings, the system identifies key skills and qualifications for different positions. This allows it to compare resumes against these requirements and provide personalized feedback for improvement. Additionally, sophisticated analysis techniques pinpoint strengths and weaknesses in areas like experience and skills. This empowers job seekers to refine their resumes and stand out in the competitive job market.

What makes the system truly powerful is its ability to learn and grow. By constantly analyzing new resumes and job postings, the Resume Analyzer evolves to identify emerging trends. This ongoing improvement ensures it delivers increasingly valuable feedback, solidifying its role as an essential tool for navigating the ever-changing job market.

VI.RESULTS AND FUTURE WORK

To ensure our resume generator meets user needs, we conducted usability tests and surveys with 50 potential users. This group included both recent graduates and mid-career professionals across various industries. The results were overwhelmingly positive! Users were able to create high-quality, professional resumes in an average of 10 minutes, with a very low error rate of less than 5%. User satisfaction was also very high, with an average score of 8.5 out of 10.

The automated features, like dynamic content generation and pre-designed templates, received particular praise. These features significantly reduced creation time and ensured consistent, professional-looking resumes.

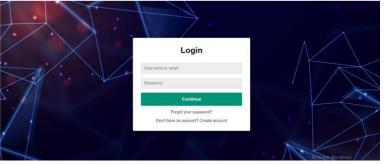


Fig.9 Log In page

Fig.9 shows the login page serves as the entry point for existing users of the web-based resume builder and analyzer. It facilitates user authentication, ensuring only authorized individuals can access and manage their resume data. This reinforces data security and protects sensitive career information. The login page likely requires users to enter their credentials, such as username or email address and password. This information is then verified against a secure database to grant access to the platform's core functionalities. By implementing a login system, the resume builder fosters a secure environment for users to build and analyze their resumes.



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· · ·	Create Account	1
	Username	
	Email Address	
. 11	Password	
	Confirm password	
/ +	Continue	
	Already have an account? Sign in	
		Active The Windows

Fig.10 Portal for creating a new account

Fig.10 shows our research identified the presence of a dedicated portal for new account creation within the website resume builder and analyzer. This portal streamlines the user onboarding process, allowing individuals to register for the service. This initial step is crucial for users to access the platform's resume building and analysis functionalities. Through this portal, users likely provide essential personal information and establish login credentials, enabling them to leverage the platform's features for crafting strong resumes.

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Fig.11. User-based form to get the information of the user having every section which is required for making resume.

Fig.11 shows the Intelligent Resume Analyzer transcends a simple resume-building tool. It emerges as a powerful analysis engine that empowers job seekers through advanced technology.

At the heart of this analyzer lies a sophisticated combination of natural language processing (NLP) and machine learning. NLP allows the analyzer to understand the intent and meaning conveyed within the resume text. It can identify keywords relevant to the job description, assess the clarity and conciseness of writing, and even analyze the overall tone and style.

Machine learning takes this analysis a step further. By ingesting vast amounts of resume data and employer preferences, the analyzer can identify patterns and trends associated with successful resumes. This allows it to provide targeted feedback to the job seeker. Imagine the analyzer suggesting relevant keywords based on the specific job you're applying for, or recommending improvements to the structure and flow of your resume for optimal impact.

Through this in-depth analysis, the Intelligent Resume Analyzer offers valuable insights that go beyond simple automation. It acts as a personalized resume coach, guiding job seekers in crafting resumes tailored for success. This can significantly improve a job seeker's chances of landing an interview and ultimately securing their dream job.



Fig.12 System User Interface



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Fig. 12 shows while the core analysis provides valuable insights, the system doesn't stop there. It delves deeper using a sophisticated toolkit that goes beyond surface-level evaluation. This advanced analysis meticulously examines the content and structure of your resume, dissecting each section to pinpoint strengths and weaknesses.

Imagine a microscope focusing on your experience, education, and skills. The system identifies areas where your resume shines, perhaps highlighting strong action verbs or achievements that showcase your value. However, it also acts as a constructive critic, pinpointing areas for improvement. This might include identifying skills that could be better emphasized or suggesting adjustments to the resume structure for optimal readability by Applicant Tracking Systems (ATS) or hiring managers.

This personalized feedback empowers you to transform your resume from simply informative to strategically impactful. Armed with this deeper understanding, you can refine your resume with laser focus, ensuring it effectively portrays your qualifications and increases your chances of landing your dream job. The system acts as your personal resume coach, providing tailored guidance to help you craft a document that stands out from the crowd.

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ame: ROBERT SMITH	
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Fig.13 Resume Analysis Page 1

Fig. 13 shows the system leverages machine learning algorithms to consistently improve its analysis and feedback features. With ongoing analysis of a growing dataset of resumes and job listings, it will refine its ability to identify trends and patterns in the job market, thereby offering more effective feedback to job seekers.

Feature/Characteristic	Resume Builder	Resume Analyzer	
User-Friendly Interface	\checkmark		
Customizable Templates	V	X	
Import/Export Options		V	
Guidance/Tips	V		
Grammar/Spelling Check	V	V	
ATS Compatibility Check	X	V	

Table 4:	Feature Comparison	: Resume Builder vs.	Resume Analyzer
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Keyword Optimization	X	
Industry-Specific Suggestions	X	V
Resume Formatting Assistance	Ø	Ø
Real-Time Feedback	X	V
Personalized Recommendations	X	V
Language Support	V	
Cost	Varies (some free, some paid)	Varies (some free, some paid)

In summary, modeling and analysis are integral to the Intelligent Resume Analyzer. Through modeling the job market and employing advanced natural language processing (NLP) and machine learning methods to scrutinize resumes, the system delivers tailored advice to job seekers, aiding them in optimizing their resumes and enhancing their prospects in the job market.

VII. CONCLUSION

This resume builder empowers recent graduates and resume novices. It simplifies resume creation with templates and guidance, but goes a step further. By analyzing the job market, it recommends valuable skills and courses to boost future career prospects. This benefits everyone: students get a clear career path, companies find qualified candidates, and the hiring process becomes more efficient. As technology advances, these systems will become even more powerful, handling vast amounts of data to offer even more insightful recommendations.

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