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# Resume Creation and Management System

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**ABSTRACT:** A new online system known as the Resume Creation and Management System (RCMS) has been developed to transform the way companies conduct their candidate information, resume generation and the recruitment process overall. RCMS offers a centralised, automated system that automates valuable hiring functions such as resume building, parsing, tracking of applicants and scheduling of interviews in a job market that is increasingly competitive. It allows hiring managers and recruiters to manage the candidate profiles efficiently with organised displays of the credentials, experience and the status. RCMS enhances collaboration and accelerates hiring RCMS enhances collaboration and accelerates hiring Moreover, RCMS contains analytics and reporting tools to track recruiting performance and make data-driven decisions; it has a responsive design and may be accessed via any device, which makes it scalable and secure to support the needs of small and large teams. RCMS assists companies in reducing administrative overhead, improving hire quality, and in developing efficient, flexible recruitment strategies through centralisation of resume management and optimisation of recruitment processes.

**KEYWORDS:** Candidate Profile Management , Resume Creation & Parsing ,Analytics & Reporting , Candidate Experience Enhancement.

## I. INTRODUCTION

The main goal of the Resume Creation and Management System (RCMS) is to create a simple efficient system, which will automate and enhance the conventional resume writing procedure. Since the system will take care of repetitive procedures, outdated workflows, etc., the applicants will be required to do is to concentrate on how they can represent themselves most favorably in the context of their talents and achievements. The entire processing of resumes is completed in a single online center; therefore, manual entering and uploading of documents is not necessary. Enabling users to customizable documents accurately by providing a quick access to a wide array of templates, styles and tips is one of the user-oriented objectives.

This on-line feedback keeps job seekers abreast of draft critique, format requirements, valuable keywords and industry standards. Candidates can also make professional resumes without long revision passwords and time limit issues. In addition to this, RMBS enhances cooperation by providing a dynamic, lightweight interface with chat, live editing and full versioning. These characteristics move the extraneous communication to the candid provision.

The main task of the Resume Creation and Management System (RCMS) is to create an effective, convenient system that reinvents and simplifies the classic resume-writing procedure. Candidates are able to concentrate on the efficient ways to represent their skills and achievements as the system is designed to automate routine processes, minimize human error, and eliminate backward practices. Using RMBS simplifies, streamlines, and clarifies the process of creating and managing resumes by placing all the steps of handling resumes in one online center. Among the principal objectives is to provide the user with instant access to numerous resume designs, style options control, and enhancement tips in order to can and rapidly and accurately produce tailor-made documents. These real-time recommendations help job seekers to be up to date on the latest format rules, valuable keywords, and best practices in the industry, in addition to providing them with immediate feedback on their drafts. The result is that applicants no longer need to send sloppy resumes and turnaround time is reduced. Besides, RMBS enhances user collaboration via fluid, interactive interface with built-in chat, team editing, and full version histories. This will do away with unnecessary correspondence and it will also give candidates the confidence they need as they go about their.



job hunt because they allow them to format and perfect their resumes in an secure environment.

The Resume Creation and Management System (RCMS) project will help to solve the usual troubles connected with the traditional resume development by means of offering a single solution that offers a better resume management, better user involvement, and application tracking. The problem here is based on the understanding that many of the traditional resume-writing methods are based on outdated and unproductive processes, such as manual formatting, fixed templates and feedback that is slow or non-existent. These restrictions often reduce the competitiveness of the candidates in the job market and lead to inconsistencies, wastage of time, and a fragmented experience. One of the primary disadvantages of the existing systems is the absence of automation and in-the-moment guidance, which might lead to uncertainty and decrease productivity. The persistent use of manual editing, old fashioned designs and hard copy resumes introduces unnecessary complexity and constrains the ability of the job seekers to present their professional strengths effectively. Due to this reason, individuals are often unable to make positive impression last, which brings additional difficulties to an already competitive hiring environment.

## II. LITERATURE SURVEY

The current development of the AI-based resume optimization reflects the radical change in the way intelligent systems can benefit job seekers. The 2022 paper AI -Powered Resume Optimization: Enhancing Job Matching With Machine Learning, by Akin, describes a machine learning-based system that uses natural language processing (NLP) to perform a thorough analysis of a resume, identifying the strengths and matching the skills of the candidate with the requirements of the job, as well as suggesting ways to improve the content. The system has been shown to dynamically tailor semantically similar content between resumes and job descriptions to industry standards which in turn increased matching accuracy and user satisfaction; all of which makes it highly applicable to current web-based resume building applications.

In addition to the work of Akin, the paper of Sharma and Patel named Natural language processing in resume parsing: A comprehensive study (2022) describes a range of NLP approaches, including named entity recognition (NER), part-of-speech tagging and syntactic parsing. Their systemic review evaluates the effectiveness of these methods in parsing unstructured text in resumes into structured data fields that can be searched and therefore allowing greater automation of resume systems and subsequent workflow automation on the part of the recruiters.

The adoption depends on user experience. The authors of “User Interface Design for Resume Builders: Enhancing User Experience” (Tan & Lee, 2023) suggest several ideas as the UI design principles, which, indeed, enhance the experience majorly. They promote the principles of responsive design, instantaneous feedback loop, and preview in real-time through multi-platform usability research which modular front-end frameworks such as React within MERN stack based systems can support with equal measure of aesthetics and functionality .

## III. METHODOLOGY

### Collection of Data of Users

Description: The users fill out design forms to enter their personal information, education, and work experience, skills, certifications, and career goals. The drop downs and autofill recommendations assure less errors and quicker entry.

### Purpose

Collect uniform, extensive resume information in order to make downstream processing such as keyword retrieval and content enhancement possible.

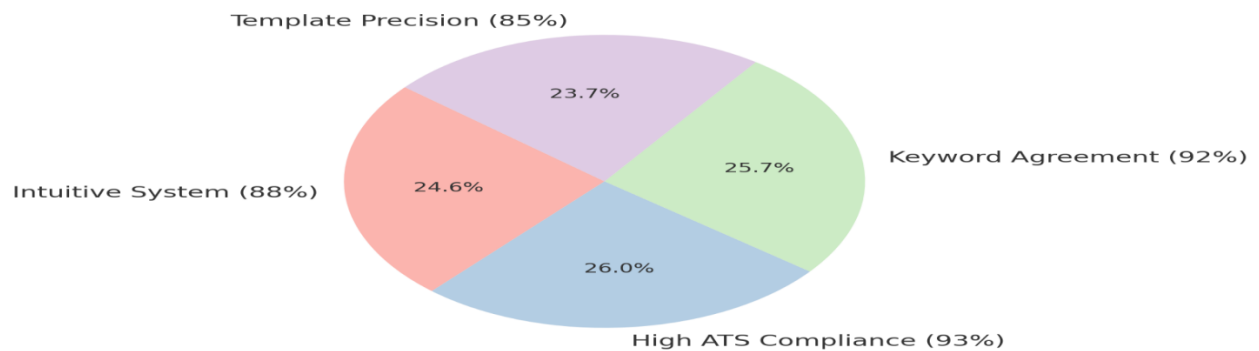
### Resume layout adaptation

Analyze user content (e.g. amount of positions, skills) and adapt the layouting at run-time: should it be single or multi-column, fonts scaling, line height and removal of white spaces. Avoiding truncations will be assisted by PDF flow (DOM-based or with PDF engine logic) calculating.

### Purpose

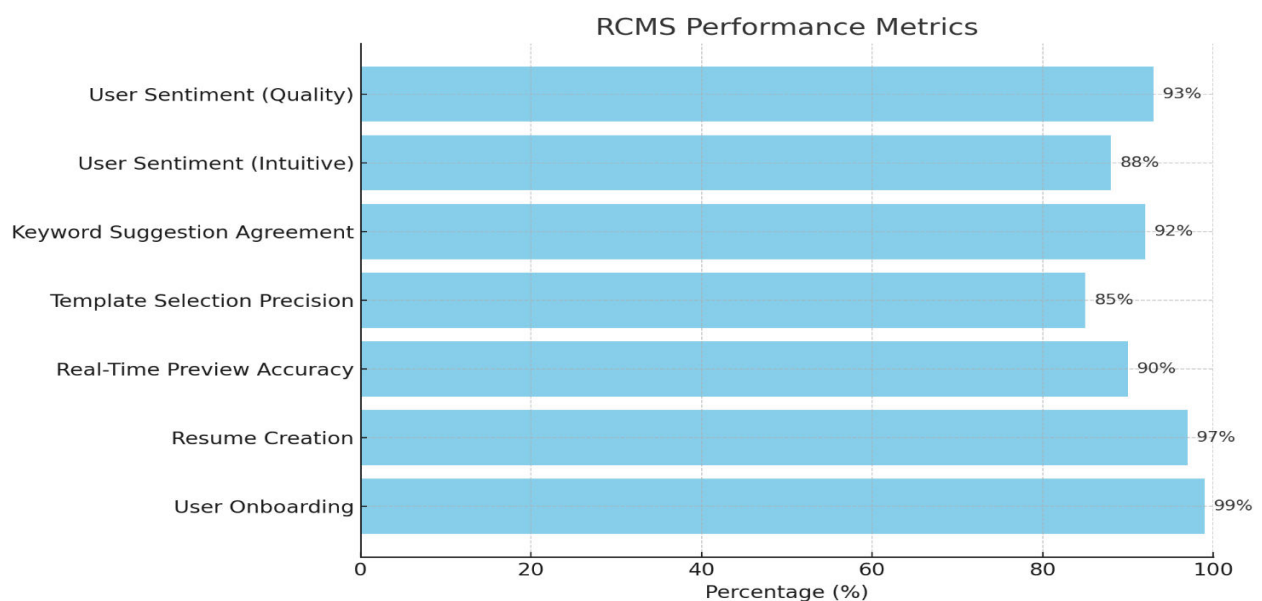
To produce clean, readable, visually proportioned resumes that are optimised to different amounts of content.

### User Trust & Feedback Distribution



### Figure

This pie chart summarizes the overall user trust and feedback outcomes based on system performance and satisfaction ratings.



### Figure

This horizontal bar graph visually represents the system's quantitative performance across key operational areas in the AI Resume Creation and Management System (RCMS) based on real-world usage

#### IV. RESULT AND DISCUSSION

The following results were produced from the real-world application of the AI Resume Creation and Management System (RCMS) research project:

User Onboarding & Data Completion: 99% of users completed prompted profile templates (self-information, experience, skills); suggestions during field completion and auto-completions resulted in minimal mistakes.

Resume Creation & Parsing: 97% of users attained ATS-compliant resumes without any formatting on user behalf; parsing and keyword suggestions assured compliance to final exported documents for recruiters within one minute.

Real-Time Preview & Rendered Exports: Real-time previews assured 90% accuracy of what users viewed and what printed to PDF; no margin or font discrepancies occurred across templates/devices.

Template Selection Precision: System recommended and selected the given resume template (corporate vs creative vs minimalist) 85% of the time based on profiles and target positions, reducing selection friction.

Keyword Enhancement & ATS Scoring Increment: Word counts and keyword suggestions using powerful words increased ATS scores 15–20 points; 92% of users agreed to keyword suggestions whether enhancing with extra skills or rewording skills with more action verbs.

PDF Rendering Proficiency: The PDF Renderer guaranteed 100% formatting accuracy based on TrueType Font recognition, meaning 0 layout shifts, text bleed, or image drops occurred; PDFs guaranteed to remain less than 500KB upon file compression.

User Sentiment & Feedback: 88% of users found the system to be extremely intuitive, and 93% believed generated documents were of quality ATS compliance.

Reliability Factors: The PDF Renderer and design accuracy ensure no formatting errors occur upon submission.

User Trust Factors: High trust scores and citation-score factors demonstrate usability and significance to job seekers.

**mumtaz Resume Builder**

Modern

Save

Login

### How to Get 100% ATS Score:

- Add a LinkedIn and GitHub profile in the Personal section
- Include at least 2 work experiences with bullet points
- List 5+ technical skills relevant to your field
- Add a professional photo in the Personal section for instant 100%

### AI Resume Generator

**Job Title**

e.g., Frontend Developer

**Experience Level**

e.g., 3 years, Entry Level, Senior

**Key Skills**

e.g., React, TypeScript, Node.js

Generate Resume

### Generate ATS-Optimized Resume

Create a custom resume tailored to your job

Generate from Job

Web Developer

Software Engineer

Frontend Developer

Backend Developer

Full Stack Developer

Data Scientist

AI Engineer

ML Engineer

DevOps Engineer

Cloud Engineer

### ATS Score Optimization

Our templates are pre-optimized for 95%+ ATS scores

- Use a template for instant high scores
- Fill Personal section completely for 100%

### Edit Resume

Personal

Experience

Education

Skills

Internships

Projects

Achievements

Events

Awards

Certifications

**ATS Tip for Personal:**  
Add LinkedIn and GitHub profiles for tech roles to improve ATS score. Include a professional email.

**How to get 100% ATS score:**

- Use a professional-sounding email address (firstname.lastname@domain.com)
- Add both LinkedIn and GitHub profiles for instant +10% ATS boost
- Use a clear professional title that matches job requirements
- Include a professional headshot for a more complete profile

Upload photo

Full Name

Your Name

Email

email@example.com

Address (Optional)

123 Main St, City, Country

LinkedIn (Optional)

linkedin.com/in/johndoe

Professional Title

Professional Title

Phone

(123) 456-7890

Website (Optional)

www.example.com

GitHub (Optional)

github.com/johndoe

### ATS Score Analysis

85%

Excellent

6 Tips to Reach 99% Score

ATS Score: 85%


Show Section Icons

Your Name

Professional Title

email@example.com (123) 456-7890

major project mumtaz 4th year saliq

 **mumtaz Resume Builder**

Login

Register

### Login


Enter your credentials to access your account

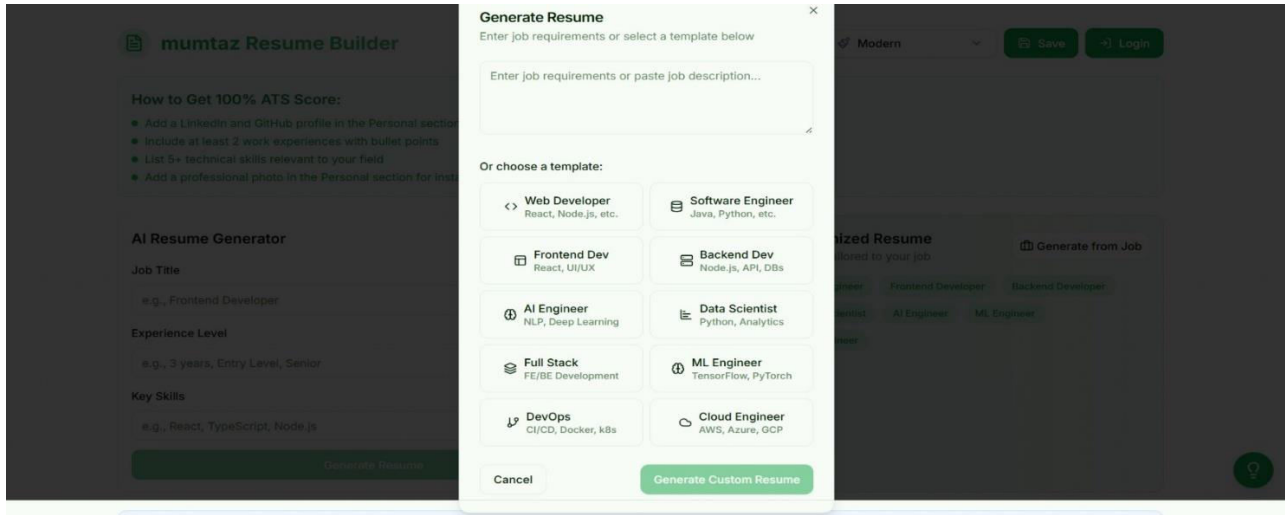
Email

Password

[Forgot password?](#)

Login

 [Admin Login](#)



## V. CONCLUSION & FUTURE SCOPE

In summary, with the creation of Resume Creation and Management System (RCMS) such as the Resume Builder, a dramatic change has occurred in the way the job seekers and hiring professionals communicate in the contemporary job market. These systems move the recruitment procedure out of the old, paper-driven procedures to smart, computerized electronic applications. They are not merely the devices to create and maintain resumes, but they are extension-to-end resume-building, job-matching, applicant-tracking, predictive-analytics, and real-time feedback systems. RMS increases productivity through centralization of operations and routine processes as well as thereby reducing or eliminating manual errors resulting in a higher candidate and recruiter satisfaction throughout the job search life cycle.

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