Resume Scorer

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Abstract. The Resume Scorer Application is an innovative platform designed to streamline the process of evaluating resumes for both users and administrators. It features two distinct interfaces: a user interface where individuals can upload their resumes to receive a score based on predefined criteria, including skillsets, experience, and alignment with job roles, and an admin interface for managing user submissions and overseeing the scoring process. The platform utilizes advanced parsing techniques to extract key details such as the applicant's name, email, and phone number, while also offering skill recommendations and course suggestions for career enhancement. This application is intended to assist job seekers in refining their resumes and help hiring teams in assessing candidate fit more efficiently.

Keywords. Job Role Fit, Skill Recommendations, Career Development, Course Recommendations.

1 INTRODUCTION

The Resume Scorer application offers a comprehensive solution to the challenges job seekers face when crafting resumes that stand out in an increasingly automated hiring environment. One of the key features of the platform is its ability to parse resumes and extract essential details such as educational background, work experience, and skills, which are then evaluated against job-specific criteria [1]. This automated process not only saves time but also provides consistent, unbiased feedback, ensuring that every resume is assessed based on merit rather than subjective judgment [2].By incorporating machine learning algorithms, the application continuously improves its scoring accuracy over time, learning from patterns in successful resumes that have been shortlisted or hired for various roles. It goes beyond merely checking for keywords by evaluating the overall structure and coherence of the resume, ensuring it aligns with best practices in resume writing [3]. The application also suggests skill enhancements and recommends relevant courses to help users stay competitive in their chosen fields, particularly in industries where skills are rapidly evolving [4].In addition to benefiting users, the Resume Scorer offers a robust admin interface, allowing administrators to monitor submissions, manage users, and fine-tune the scoring metrics as job market trends shift [5]. This flexibility ensures that the system remains relevant to the dynamic nature of employment demands across various industries [6]. The platform's ability to track and analyse trends in resume data also offers valuable insights for recruiters, helping them understand which skills and qualifications are most frequently associated with top candidates [7].Ultimately, the Resume Scorer application not only supports job seekers in optimizing their resumes for today's competitive job market but also promotes long-term career growth by fostering a deeper understanding of the evolving demands in different industries [8]. It bridges the gap between the job seeker and modern hiring processes, enhancing the likelihood of securing interviews and achieving career success.

2 RESEARCH METHODOLOGY

The research methodology for the Resume Scorer application centres around leveraging natural language processing (NLP) and machine learning to automate resume evaluation and offer personalized skill and course recommendations. Users engage with the platform through a Streamlit-based interface, where they upload their resumes for analysis. The platform utilizes the "en_core_web_sm" pre-trained model from SpaCy, which applies logistic regression and neural networks to parse resumes, extract key details, and assess the relevance of skills and experience [1]. Skill and course recommendations are generated based on a keyword-matching approach. Each domain, such as web development or data science, has predefined keywords (e.g., React, HTML, CSS for web development). When a resume is submitted, the platform analyses the content and matches it with the most relevant domain, providing recommendations for further skills or courses that can enhance the user's profile. This method ensures that users receive actionable insights tailored to their career path, helping them strengthen their resumes with industry-relevant competencies [2]. The system provides an intuitive experience for users without

the need for manual feedback collection. Instead, the feedback loop is driven by the accuracy of keyword matching and skill recommendation algorithms, allowing users to refine their resumes based on data-driven insights. By offering personalized recommendations, the platform empowers job seekers to better align their resumes with industry standards and improve their chances of success in the job market [3]. The Resume Scorer emphasizes user empowerment by guiding individuals in optimizing their resumes through tailored recommendations. Though it does not include gamification elements, the platform creates a meaningful experience by focusing on practical improvements that directly impact job search outcomes [4]. This methodology demonstrates how integrating NLP and machine learning can streamline resume evaluations, offer relevant recommendations, and adapt to changing job market demands, providing value for both users and administrators [5].

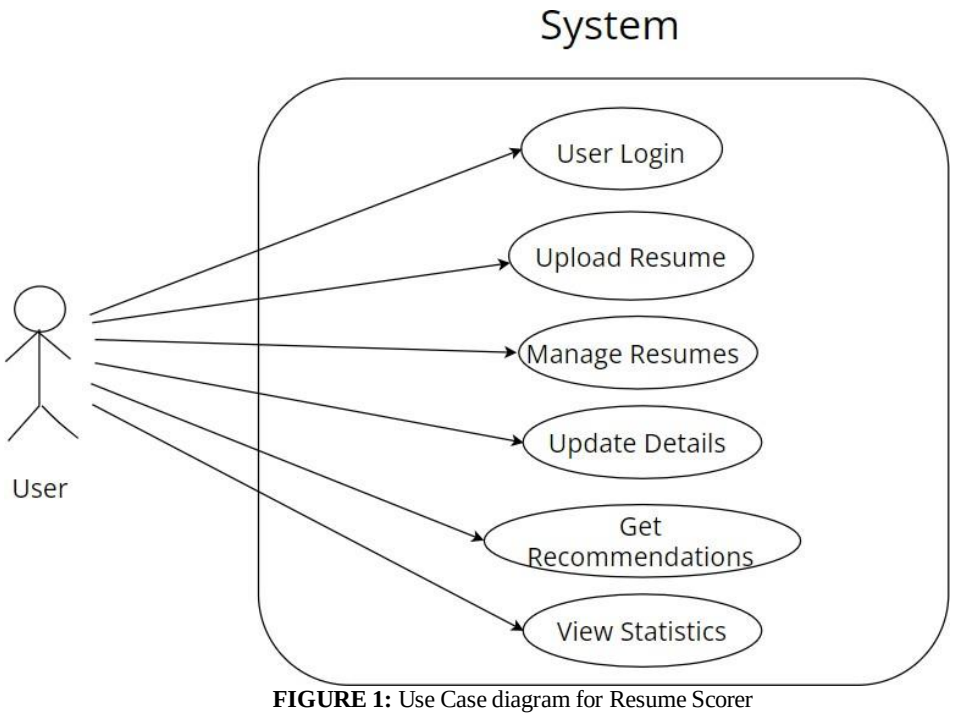

FIGURE 1: Use Case diagram for Resume Scorer

3 RESULTS AND DISCUSSION

Users found the Resume Scorer application intuitive, with clear connections between their resume content and the personalized skill and course recommendations. The domain-specific keyword matching effectively guided users in refining their resumes for specific job roles. Though lacking gamified elements, users were motivated by the actionable feedback, which helped them improve their resumes. The admin panel provided valuable insights into user behaviour, tracking logins, resume scores, and commonly recommended skills. This allowed administrators to monitor trends and ensure the platform stayed aligned with industry demands. The manual verification process maintained fairness and transparency, ensuring accurate and reliable evaluations for all users.

3.1 Preparation of Figures and Tables

The below table explains about the key features of the Resume Scorer , the estimated time taken for users to complete each activity, and how it affects the leaderboard:

Table 1: *Game Dynamics and Estimated Timeline for each activity*

Feature	Description	Estimated Time tocomplete	User Benefits
Daily Resume Tips	Users receive personalized resume tips based on their submission.	35 minutes	Improved resume quality and increased chances of job interviews.
Resume Submission	Users upload their resumes for scoring and feedback.	510minutes	Detailed scoring and constructive feedback for enhancements.
Skill Enhancement Challenges	Users complete challenges to develop in- demand skills (e.g., online courses).	35hours	Skill development leading to stronger resumes.
Resume Tips and Ideas	Personalized tips and ideas for enhancing the resume's effectiveness.	510minutes	Actionable insights to create a standout resume.
Bonus Video for Tips	Access to a bonus video with expert advice on writing effective resumes.	5 minutes	Visual learning resource for better resume writing techniques.

FIGURE 1: User Task Page

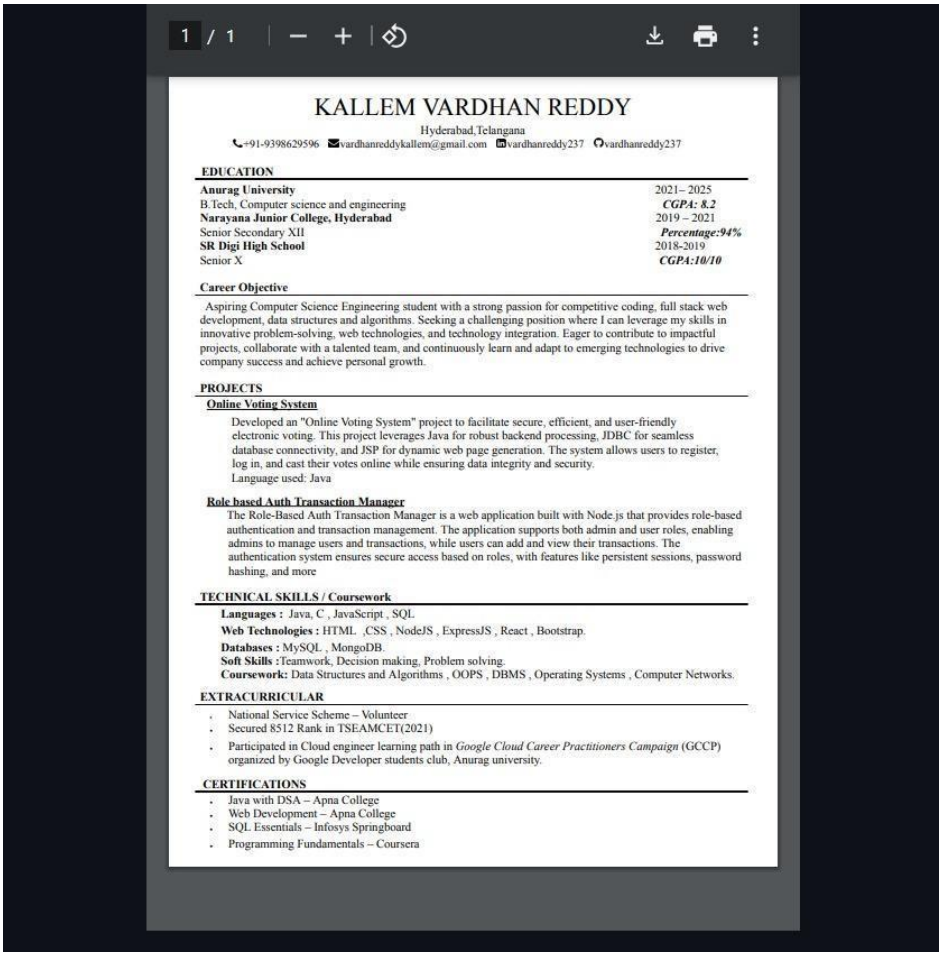

FIGURE 2: Generation of user Resume after upload

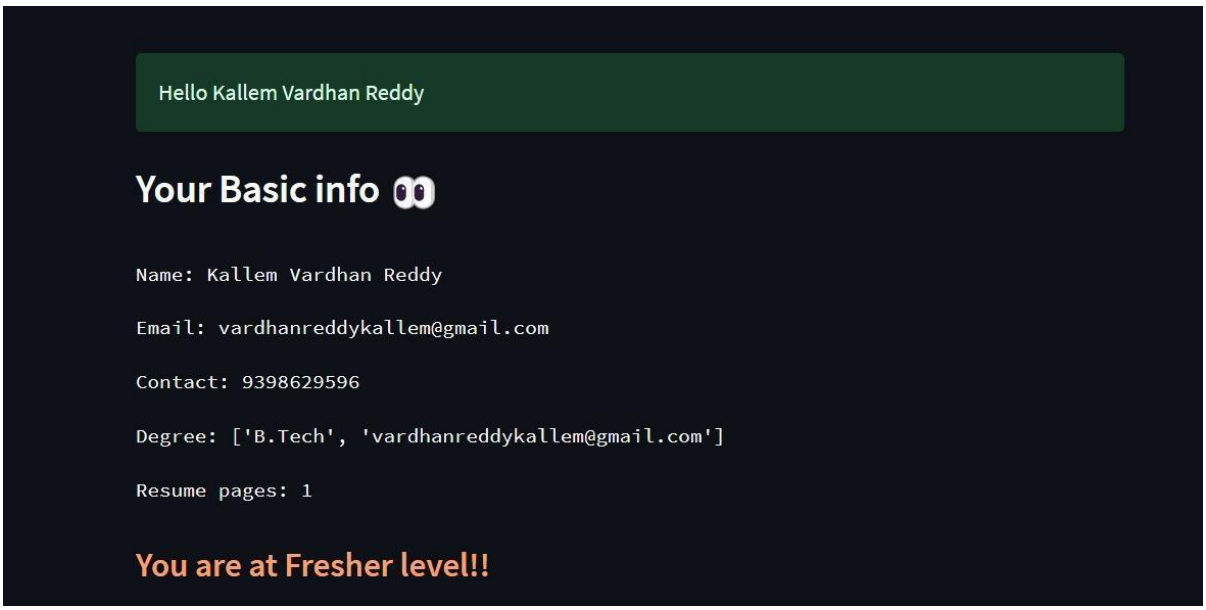

FIGURE 3: Generating of basic details from Resume

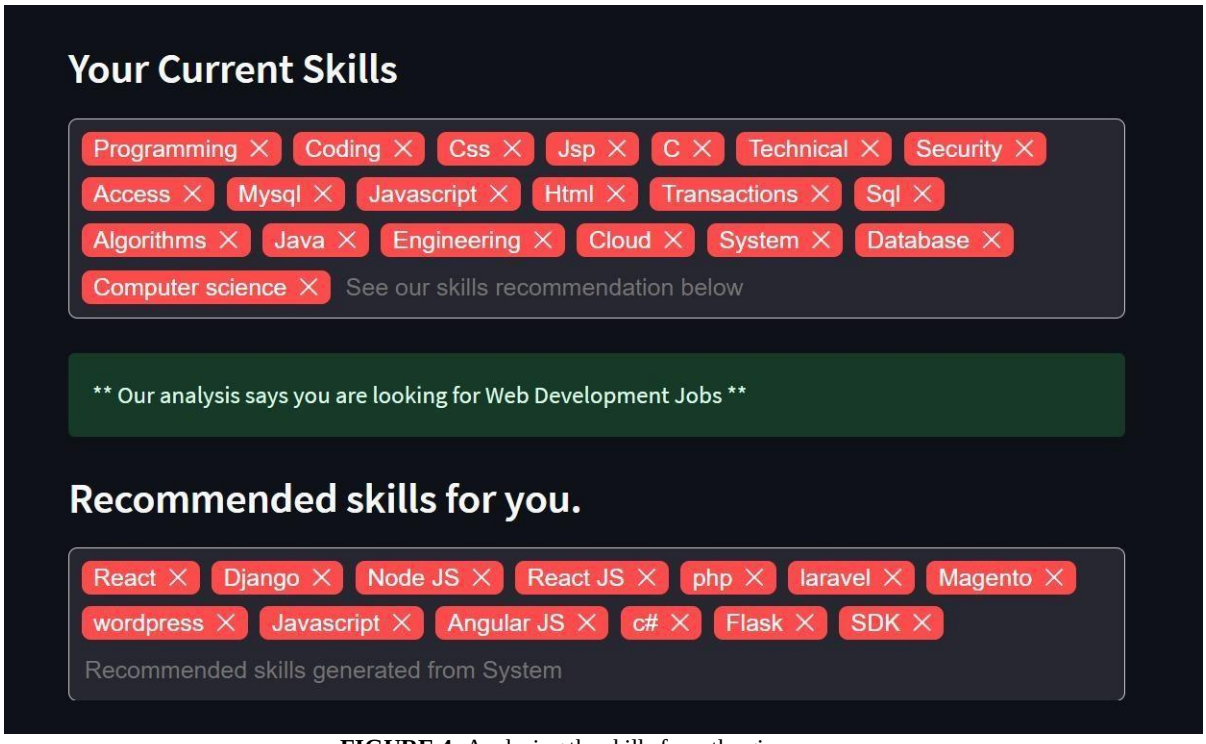

FIGURE 4: Analysing the skills from the given resume

FIGURE 6: Generating the score of Resume

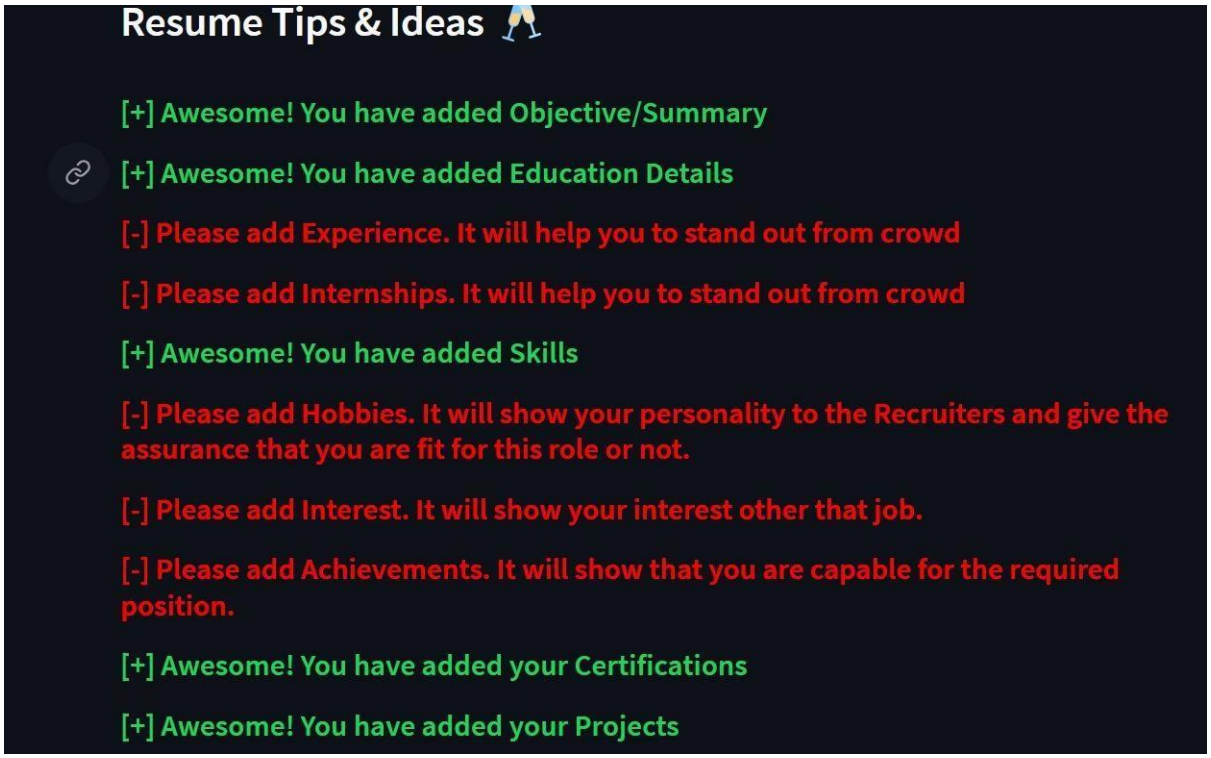

FIGURE 7: Providing some Tips & Ideas to the Resume

4 DECLARATIONS

4.1 Study Limitations

None

4.2 Acknowledgements

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4.3 Funding source

None

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