Resume QR Generator (The helper AI)

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Abstract – **This research paper is about to job seekers The AI Resume Analyzer is a tool that uses Natural Language Processing (NLP) to make the hiring process faster and easier. In today's job market, companies receive a large number of resumes, making it difficult and timeconsuming to find the best candidates. This AI-based system solves this problem by automatically reviewing and ranking resumes, saving time and effort for employers.The tool works by extracting text from resumes, no matter the format—PDF, Word, or plain text. Using NLP, it identifies and organizes important details such as contact information, skills, work experience, education, and other key sections. It also checks how well a candidate's resume matches the job requirements. Factors like relevant skills, quality of experience, and use of industry-specific keywords are taken into account. By ranking resumes based on these factors, the AI Resume Analyzer helps companies quickly find qualified candidates. It makes recruitment more efficient, reduces bias, and can handle a large number of applications, making it a great solution for businesses of all sizes.**

*Key Words***:** Hiring process, job application ,recruitment, Natural language processing

1. INTRODUCTION

An AI resume analyzer helps companies streamline the hiring process by quickly reviewing job applications using artificial intelligence (AI) and natural language processing (NLP). This technology saves time, reduces human bias, and improves efficiency by automating the initial stages of screening resumes.

The AI system scans resumes to identify key details like skills, qualifications, experience, and certifications. It then compares this information to predefined job requirements and successful employee traits in the company. Based on this comparison, the system assigns a score to each resume, showing how well the candidate matches the job.

By using machine learning, the AI resume analyzer helps companies make faster, more objective, and fair hiring decisions, removing much of the bias found in traditional hiring methods.

2. Body of Paper

I. MODULE DESCRIPTION

1) **Registration phase :** The registration page is created about to take general information and register their basic information and stored it into database

2) **Login phase :** once you have register with your basic details then login page required only username and password for the further process

3) **Create resume Phase :** The resume page is consist of many fields like name,age,skills,experience,education. So every field is mandatory for creating your Resume then submit then copy of your resume of or pdf will stored in your local device

4) **Generate QR code Phase** : Just click on generate a QR it will create a QR code that can be shared to anyone, the qr code will consist of employee details or student details

5) **Upload a file of resume Phase :** To get the a job we should upload created reume file

6) **OCR Algorithm Phase :** Once you have upload your file of resume then OCR (optimal character recognition) algorithm will Abstract your skills for your resume

7) **Job recommendation Phase :** OCR algorithm will abstract your skill and then redirected to the job recommendation page , the job will be recommended based upon your skill with Assit companies . for eg if you provide java language as a skill in your resume then it will suggest job based upon your skills and check vacancies

ll . SYSTEM REQUIREMENTS

1. Software Requirement :

- Operating system : Operating System: Windows 10(64 Bit).
- Back end Language : Python.

2. Hardware Requirement :

- Hardware : Intel core .
- Speed:2.80 GHz
- RAM : 8GB
- HardDisk : 500 GB
- Key Board: Standard Windows Keyboard

- Front-end : css,HTML,Javascript
- Database : DB Sqlite.
- Framework : Django.
- IDE : Vs code .

llI. METHODOLOGY

The AI Resume Genarator and AI Analyzer follows a clear process. It begins by collecting resumes in different formats like PDF and Word. A machine learning model is trained to recognize important details such as skills, work experience, and education. The data is then processed and refined through feature engineering to make it useful for analysis. The system can also be customized to match specific job roles or industries. It integrates easily with recruitment platforms, and user feedback helps improve its **Fig -2** : Login Page accuracy. Regular updates ensure the tool stays effective and reliable.
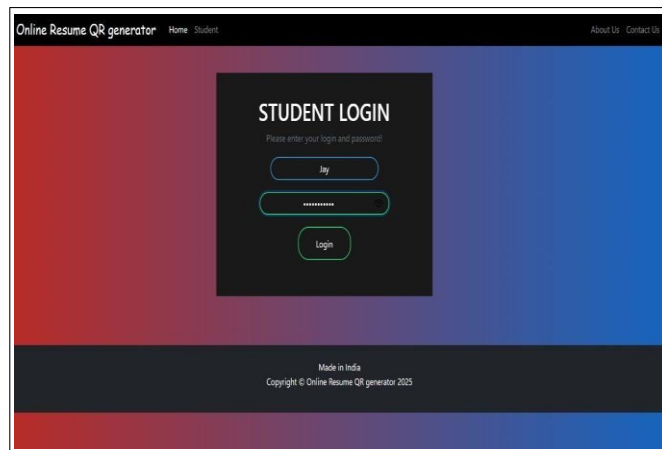

IV. FUTURE SCOPE

The Resume QR Generator and AI Analyzer is a tool that can grow and offer better ways to share and manage professional information. It makes resumes more interactive and helps keep personal data safe. In this project, AI is used to support HR teams in reviewing and selecting candidates quickly. This makes the hiring process easier and faster. The AI tools are built to handle a large number of applications, which makes them useful for both small businesses and larger companies. This ability to manage more applications means the tool can be helpful for organizations of all sizes, ensuring it meets different needs.

3. Result

Fig - 3:

Resume Fields

Fig -1: Registration

Fig -6: Upload resume File

Fig -4 : Resume Page

Fig -7 : Job Recommendation

4. CONCLUSIONS

The Resume Screening and Shortlisting: AI resume analyzers

are primarily designed to assist HR professionals in efficiently

Fig -5 : QR code

screening and shortlisting candidates. Keyword and Skill Matching: AI resume analyzers use natural language processing to extract and match keywords, skills, and qualifications from resumes with the job requirements

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