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ProTrack.ai [ATS]

A System for Evaluating Resumes Against
Job Descriptions

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Problem Domain

Issue 1: Employers face difficulty in efficiently screening resumes against job descriptions.

Issue 2: ATS (Applicant Tracking Systems) often fail to provide a comprehensive analysis of resumes, missing context or specific skill sets.

Issue 3: Manually evaluating resumes can be time-consuming and prone to bias.

Solution Domain

Core Features:

- Automatic evaluation of resumes against job descriptions.

- Generate a professional evaluation (strengths, weaknesses) based on ATS criteria.

- Calculate a percentage match and identify missing keywords in resumes.

User Interaction:

- Upload resumes in PDF format.Input job descriptions

- .Receive professional evaluation and matching analysis

Scope :

In Scope

- The system works for resumes uploaded in PDF format.
- The system evaluates resumes for any given job description.
- It provides insights based on the ATS criteria, such as keyword matching and strengths

Out Of Scope

- It does not handle resumes in other formats (like DOCX or TXT)
- The system does not offer in-depth industry-specific analysis
- No manual feedback or customization beyond the ATS evaluation.

Functional Requirements

Resume Upload: The system allows users to upload a resume in PDF format.

Job Description Input: The system allows users to input the job description

ATS Match Percentage: calculation and displays the percentage between the resume and job description.

Evaluation Report: The system generates a detailed report highlighting the strengths, weaknesses, and missing keywords.

Non-Functional Requirements

Performance: The system should provide results within 10-15 seconds.

Usability: The system should be user-friendly and require no technical expertise from the user

Scalability: The system should handle multiple user uploads simultaneously

Security: The uploaded resumes should be stored securely and handled with privacy in mind.

- # **Project Requirements**

Python Libraries:

1. PIL
2. google.genrativeai
3. Pdf2image
4. Io
5. os
6. Streamlet
7. Base64
8. Dotenv

Other Tools

- virtual environment
- .env
- Vs code
- Ai tools

External Tools
- Peppler (external software)

API
- Google.genrativeai

Conclusion : This system enhances the hiring process by using AI to reduce bias and improve efficiency.

The ATS Resume Expert system automates the resume evaluation process, offering an efficient

Thank You