



# AI-RESUME SCREENING & CANDIDATE MATCHING

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# PROBLEM STATEMENT

- Manual resume screening is time-consuming, biased, and error-prone.
- Recruiters face high application volumes and inconsistent evaluations.
- Need for automation and intelligent candidate-job matching.

# PROJECT OBJECTIVES

- Automate resume parsing and candidate filtering.
- Match resumes to job descriptions using AI.
- Reduce human bias and increase efficiency.
- Create a scalable and user-friendly solution for HR teams.

# TECHNOLOGIES USED

- Frontend: HTML/CSS or ReactJS.
- Backend: Python with Flask .
- NLP: spaCy, NLTK, Transformers (BERT).

# RESUME PARSING

- Converts unstructured resume text into structured data.
- Extracts: Skills, Education.

# JOB DESCRIPTION ANALYSIS

- Extracts key skills and requirements using NLP.
- NER and key phrase extraction from job descriptions.
- Matches the resume according to the requirements.

# DEMO SCREENSHOTS

## AI Resume Screening & Matcher

Match candidate resumes with job descriptions using semantic similarity and skill extraction

### Upload Resumes and Paste Job Description


**Job Description:**

Paste the job description here...

**Upload Resume (PDF format):**

Choose files

No file chosen

 Check Matching

# OUTPUT

## Candidate Matching Results:

**VAISHNAVI resume.pdf** — Match 

### *Matched Skills:*

- python
- java
- sql
- machine learning
- git
- aws
- html
- css





# RESULTS & EVALUATION

- Time saved vs. manual screening.
- Reduced manual work.
- Improved candidate shortlist quality.



# CHALLENGES FACED

- Inconsistent resume formats.
  - Ambiguity in job descriptions.
  - Tuning models for different industries.
  - Privacy and data sensitivity.
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# FUTURE SCOPE

- Support for multilingual resumes.
- Live feedback for candidates during application.
- API integration with job boards, LinkedIn.
- Explainable AI for transparency in ranking.
- Role based recommendation engine.

# CONCLUSION

- Successfully developed AI-based screening and matching system.
- Improves hiring efficiency and fairness.
- Enhances recruiter decision-making with intelligent recommendations.
- Reduces manual work .

*Thank  
you!*