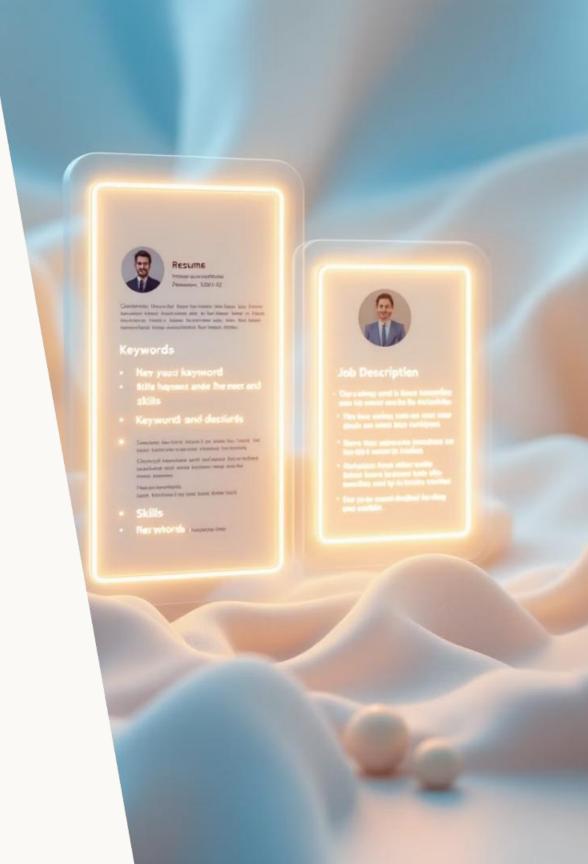
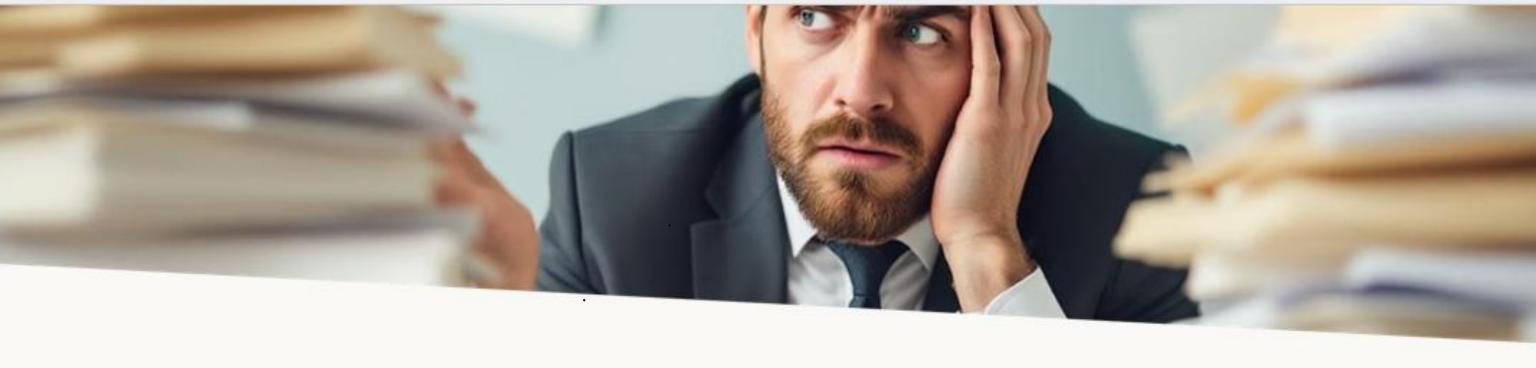
GenAl-Powered Resume to Job Match MVP

Using spaCy, Flask, and Google Colab to revolutionize how recruiters match candidates to positions.



- 1. Anupam Kumar
- 2. Nina Kolhe
- 3. Sushrut Patwardhan
- 4. Omkar Yadav
- 5. Rashmi Jiwana





Problem Statement

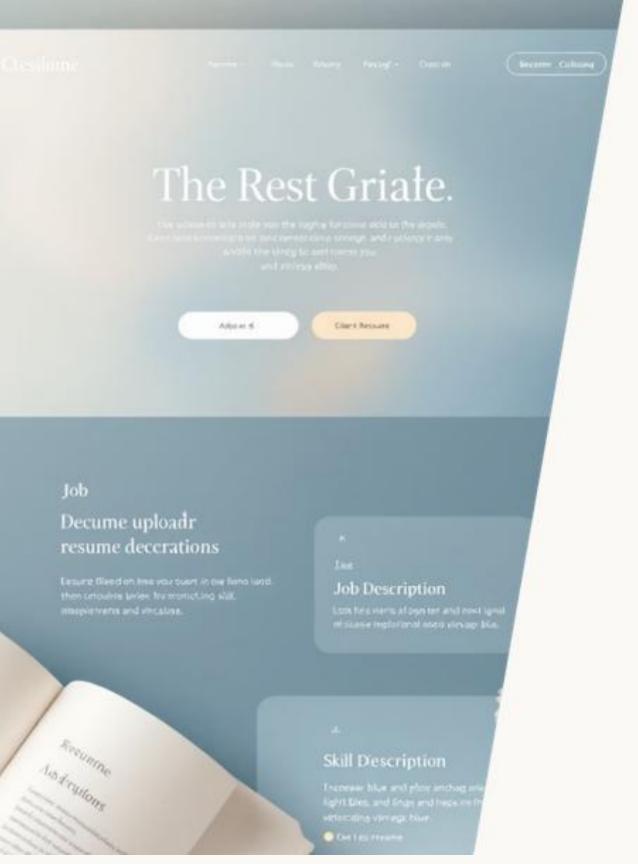
High Resume Volume

Recruiters face overwhelming numbers of applications for each position.

Technical Knowledge Gaps

Most recruiters lack deep technical expertise to evaluate specialized skills. **Inconsistent Evaluations**

Manual reviews lead to subjective and varied candidate assessments.



Minimum Viable Product (MVP) Features

Document Upload

Interface for uploading resumes and job descriptions via Google Colab or Flask.

NLP Processing

Use spaCy to parse and extract key information from uploaded documents.

Skill Matching

Algorithm comparing candidate skills against job requirements.

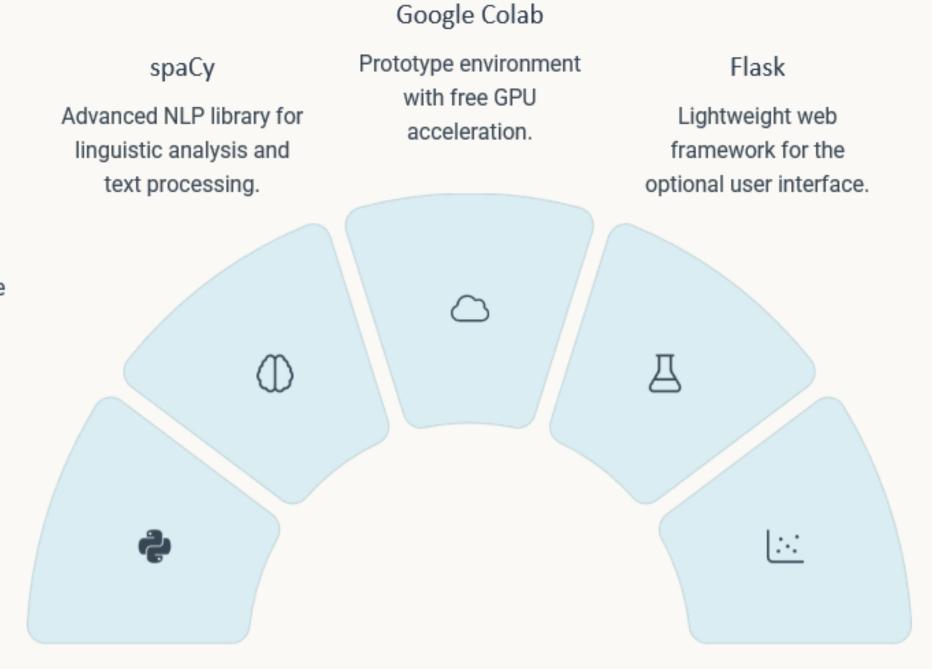
Scoring & Ranking

Quantitative match scores with sorted candidate listing.

Technology Stack

Python

Core programming language powering the application.



Scikit-learn

ML library for TF-IDF vectorization and similarity calculations.

ort is ometic extention MLP () what amplieds is toy) tem NLP analyses (this metter(is a Mil): this concerats lase tivi mett anyettemtion!; Lebe coten actef; wite gonetees (1))): Em the day order, Chest a eller orithet (inen.ly) Cerapt ion (Intle (8) viltuages (entrice); tales (cracet, shan (finer) milP amporation (an to text (ant fee lect (am (aminos)) attt ear &, (sert, or feetle beter on (at) tack of tute (tamee)); tem this vintage miner fact lit. ier)

Sample Code (Overview)



Extract Skills

Use spaCy NER and pattern matching to identify technical skills.

```
skills = extract_skills(resume_text, nlp_model)
```



Vectorize Content

Convert skills to numerical vectors using TF-IDF.

```
vectors = tfidf_vectorizer.fit_transform([skills, job_skills])
```



Compute Similarity

Calculate match percentage using cosine similarity.

score = cosine_similarity(vectors[0], vectors[1])[0][0] * 100

Next Steps

