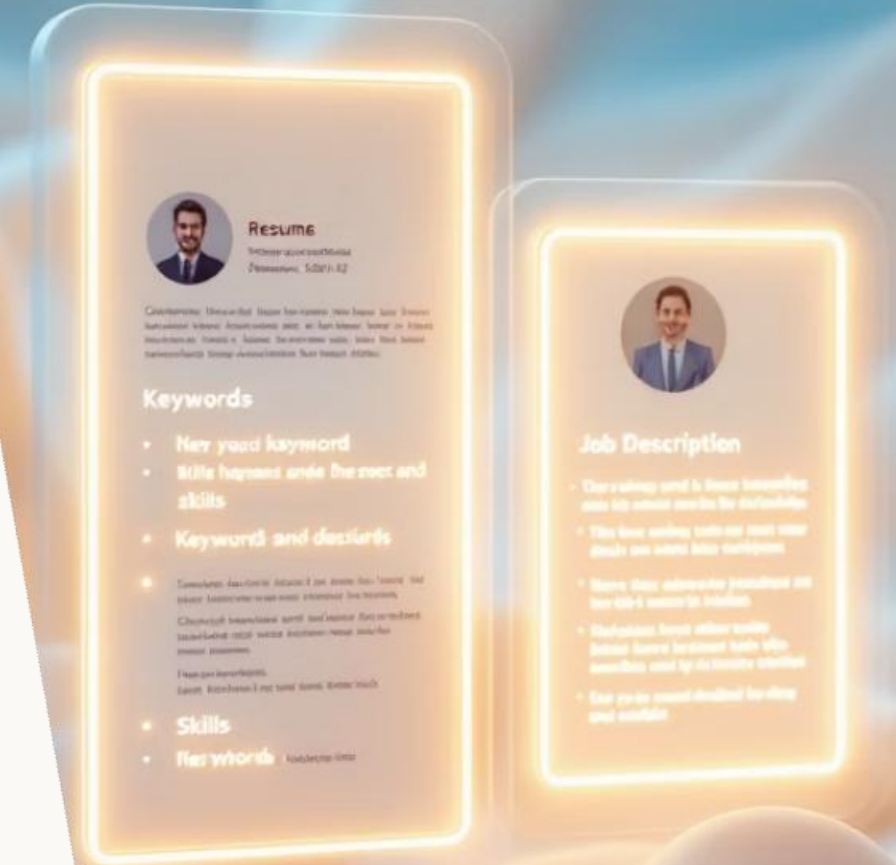


GenAI-Powered Resume to Job Match MVP

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

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Problem Statement

High Resume Volume

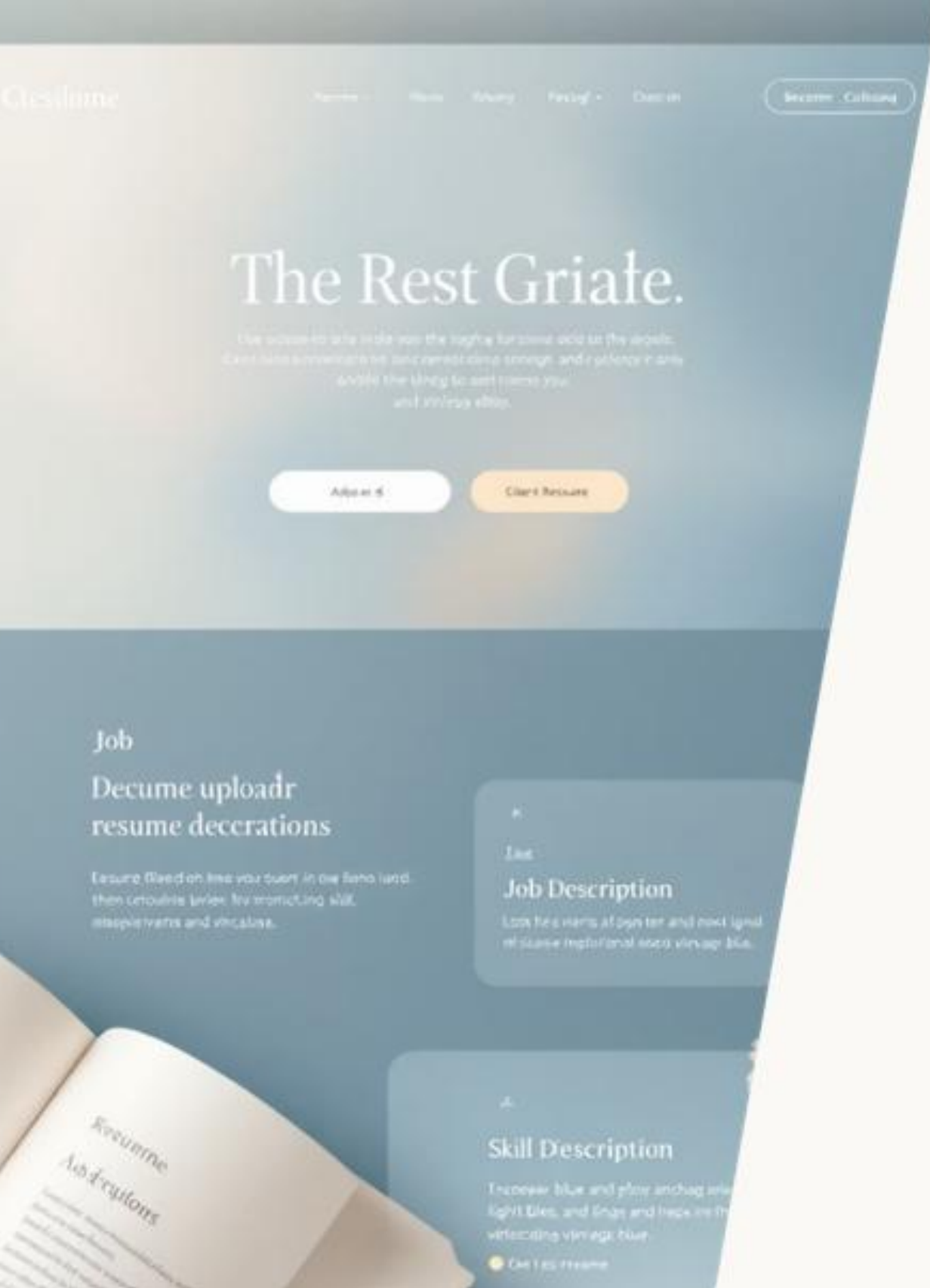
Recruiters face overwhelming numbers of applications for each position.

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.

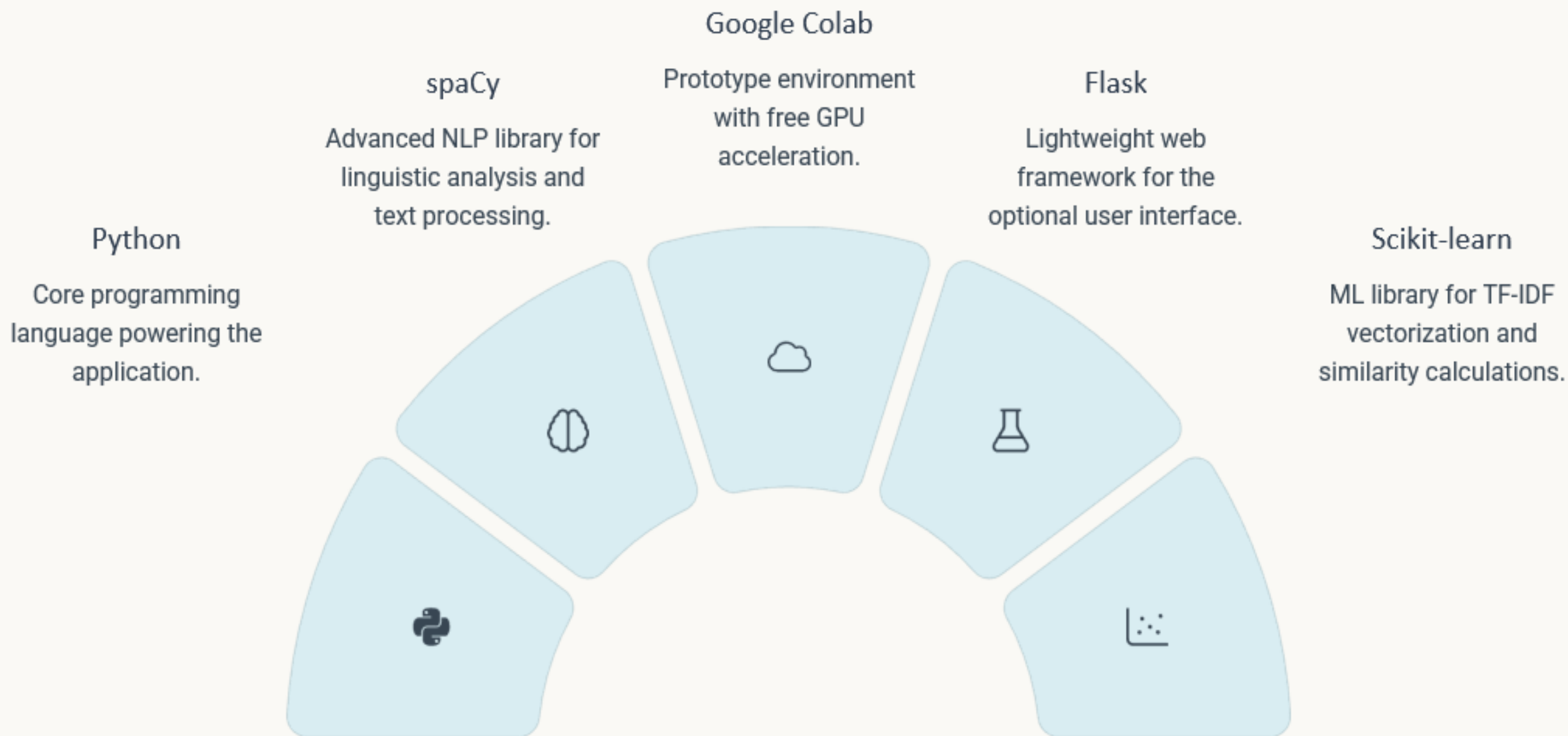
Skill Matching

Algorithm comparing candidate skills against job requirements.

Scoring & Ranking

Quantitative match scores with sorted candidate listing.

Technology Stack



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

