

Introduction

What we are solving for: Job seekers have to spend a lot of time searching multiple job titles and reading through individual job descriptions to understand if it is a good fit.

Solution: Personalized Job Recommender for Data Scientists.

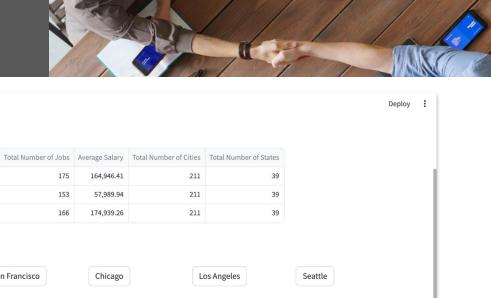
- Automated data pipeline retrieves, processes, and stores daily job posts.
- User selects filters and submits resume.
- Resume is parsed, text is matched against job descriptions.
- Top three matches are displayed with LLM-based summaries of descriptions.

User Interface via Streamlit

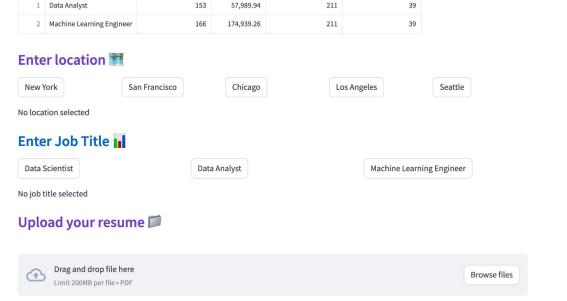
Job Statistics W

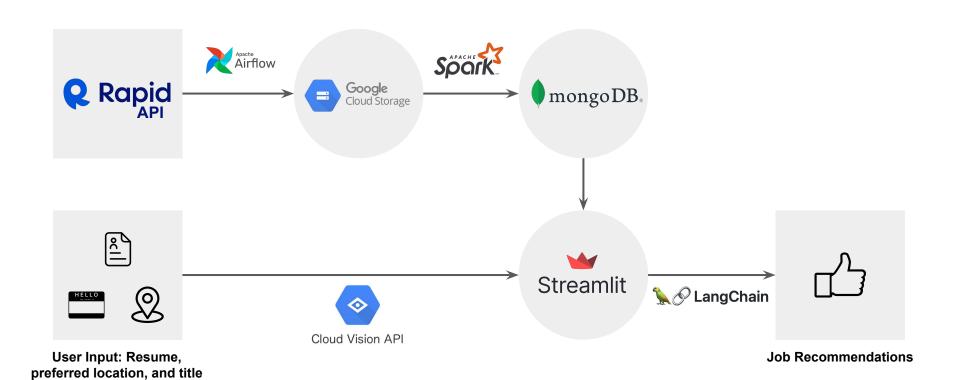
Job Title

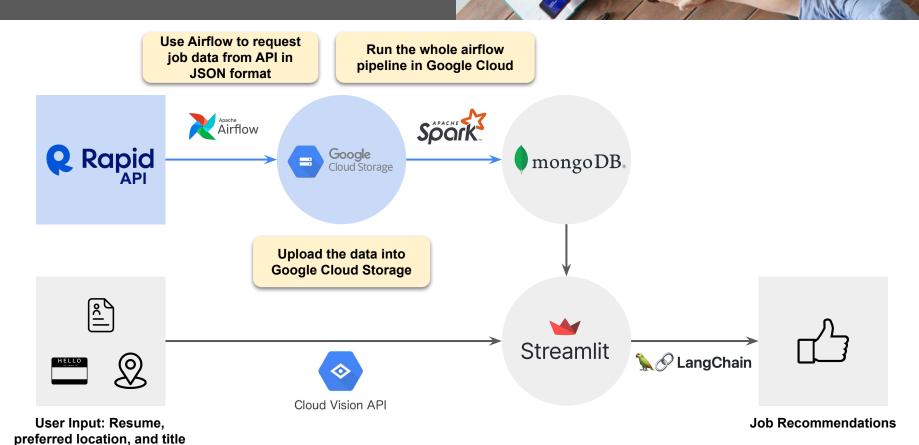
Data Scientist







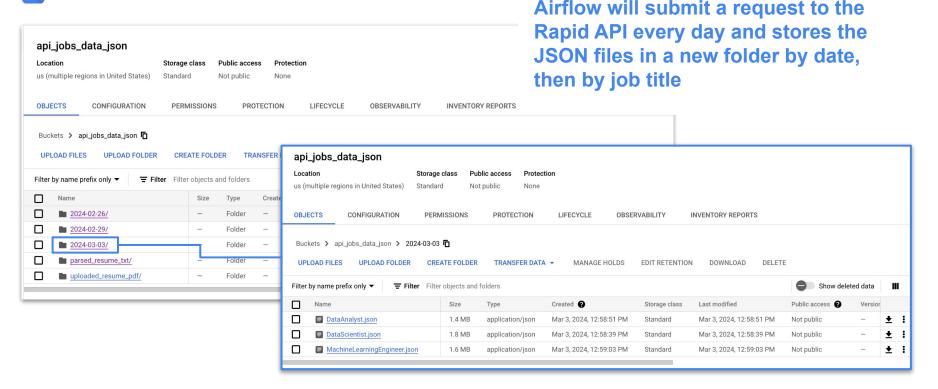


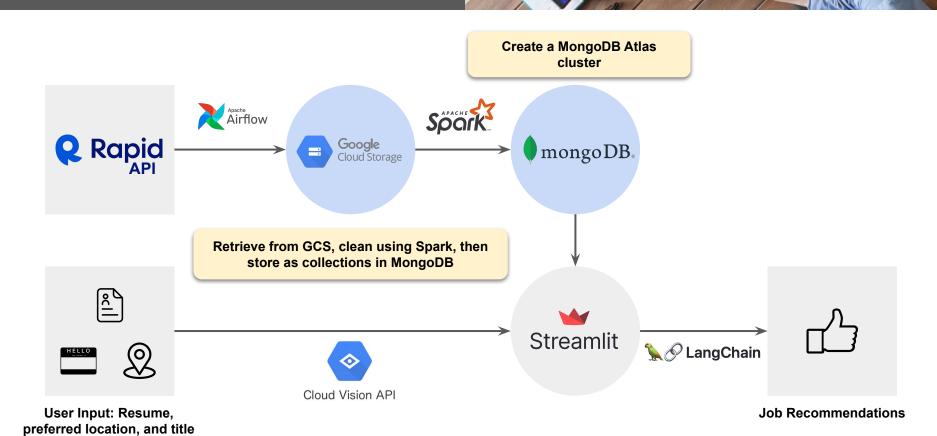


Usage of Google Cloud Storage



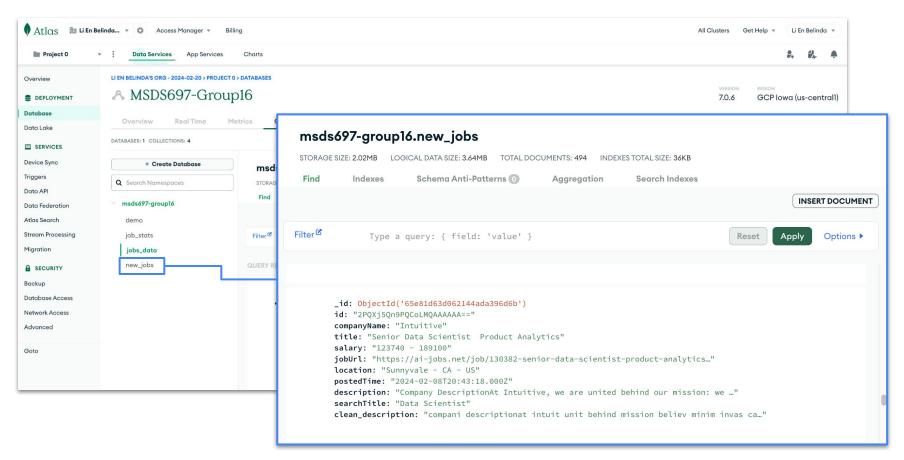


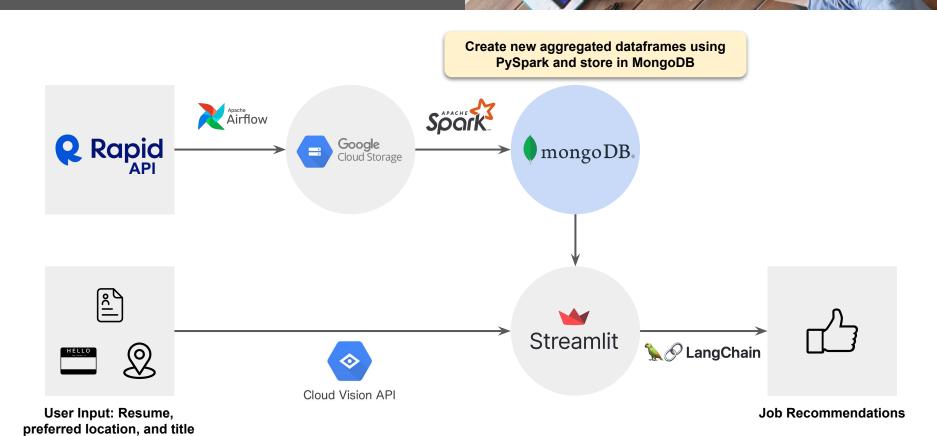




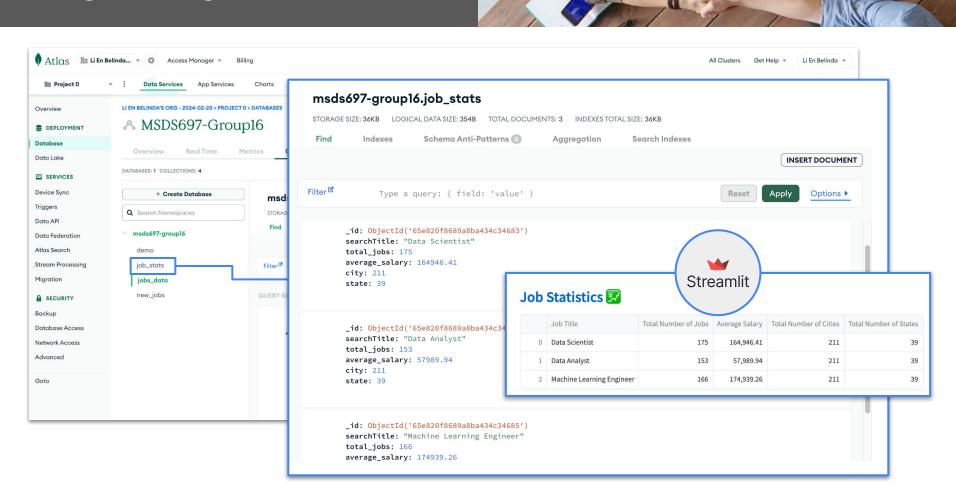
Usage of MongoDB

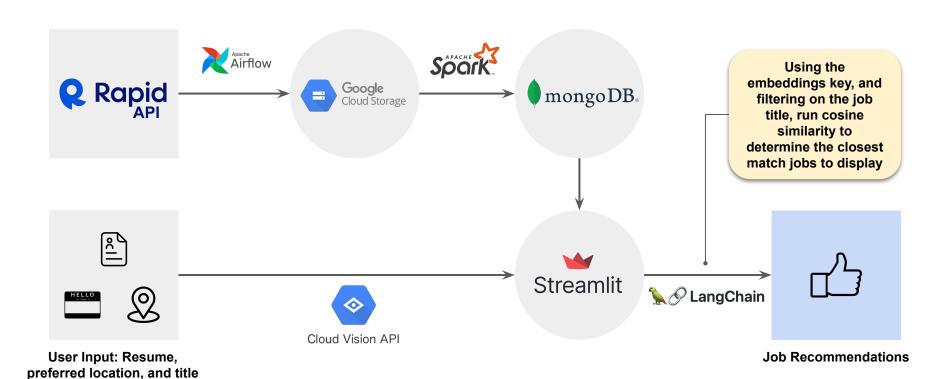






Usage of MongoDB





Displaying the recommendations



Deploy :

×





Github

Param_Mehta_Resume.pdf 196.1KB

Find Jobs

X

Processing ...

Chewy

Machine Learning Engineer II

Similarity Score: 0.94

Location: Minneapolis - MN - US

Salary: None - None

Job URL: https://careers.chewy.com/us/en/job/5772884/Machine-Learning-Engineer-II

Matching Points:

- Both the resume and job description emphasize expertise in Machine Learning and Data Science, including data preparation, model building, and deployment.
- The resume showcases proficiency in natural language processing, time series analysis, and cloud computing (GCP), all of which are crucial skills mentioned in the job description.

<u>Github</u>

Code base and project report

(truckx) parammehta@Params-MacBook-Air new %



Generating the recommendations



Index Overview

This vector search index parses the data in **msds697-group16.jobs_data** and has the following configurations.

Edit Index Definition

```
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          "numDimensions": 768,
          "path": "embedding",
          "similarity": "cosine"
6
                                     To determine the closest jobs to display
          "type": "vector"
                                           Use the embeddings key
                                           Filter on job title
                                           Run cosine similarity
          "path": "searchTitle",
10
          "type": "filter"
11
12
13
14
```

Usage of MongoDB



