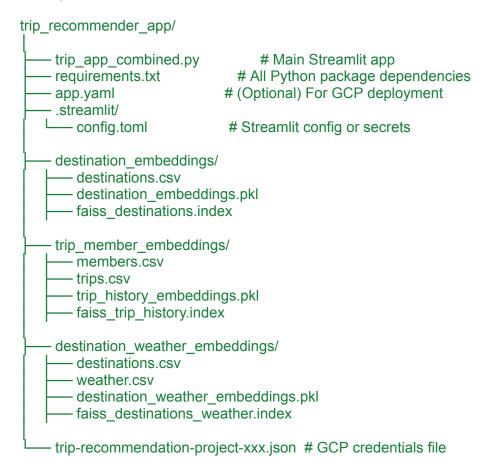
How to Run the Al Trip Recommender Streamlit App Locally

1. Project Folder Structure (to be implemented)



2. Prerequisites

- Python 3.9 or above
- Virtual environment (recommended)
- Google Cloud account with billing enabled
- BigQuery enabled
- Service account credentials JSON
- Streamlit installed

3. Setup Instructions

A. Create and activate a virtual environment

```
python -m venv venv
source venv/bin/activate # Mac/Linux
venv\Scripts\activate # Windows
```

B. Install dependencies

pip install -r requirements.txt

C. Create .streamlit/secrets.toml

Inside the .streamlit folder, create a file named secrets.toml with the following contents:

=

```
OPENAI_API_KEY = "your-openai-key"
GOOGLE_APPLICATION_CREDENTIALS
"trip-recommendation-project-xxxx.json"
```

Also make sure the referenced trip-recommendation-project-xxxx.json is in the root directory.

4. Upload Datasets to BigQuery

A. Create BigQuery Dataset and Tables

- 1. Visit: https://console.cloud.google.com/bigguery
- 2. Select your project (e.g., trip-recommendation-project)
- 3. Create a dataset named: travel data
- 4. Upload the following CSVs into that dataset:

A.members

B.destinations

C. trips

D.weather

Use auto schema detection when uploading.

B. Generate and Download GCP Credentials

- 1. Go to: https://console.cloud.google.com/iam-admin/serviceaccounts
- 2. Click Create Service Account
- 3. Give any name like: trip-recommender
- 4. Assign roles:
 - o BigQuery Data Viewer
 - BigQuery User
- 5. Create and download the JSON key
- 6. Place this JSON file in your project root

C. Connect to BigQuery Locally

Option 1 (via .streamlit/secrets.toml – preferred):

GOOGLE_APPLICATION_CREDENTIALS "trip-recommendation-project-xxxx.json"

Option 2 (via terminal):

export

GOOGLE APPLICATION CREDENTIALS="trip-recommendation-project-xxxx.json"

Windows CMD:

set GOOGLE_APPLICATION_CREDENTIALS=trip-recommendation-project-xxxx.json

5. Run the App Locally

From the project root:

streamlit run trip_app_combined.py

Then open the app at: http://localhost:8501

6. Regenerate Embeddings (if needed)

If you modify or replace the raw datasets, regenerate embeddings like this:

python destination_embeddings/embed_destinations.py python trip_member_embeddings/embed_trip_histories.py python destination_weather_embeddings/embed_destination_weather.py