Budgeted Travel

A Presentation on Recommender Systems to support travelers who have a budget.

Did you know?

The average vacation cost today for a one-week vacation

- \$1,984 for a solo traveler
- \$7,936 for a family of 4



Problem Statement

The challenge is to provide travelers with options for flights and accommodations that fit within a specified budget. This project aims to develop a solution using data from Airbnb and past flight fares to identify the top five cities a traveler can visit within their budget.

Will implement a recommender system that offers personalized travel recommendations. Additionally, a Streamlit App will be created, allowing users to input their starting city and budget range. The app will then return the top five destinations that meet the user's financial budget for both airfare and lodging.

Datasets

data.gov

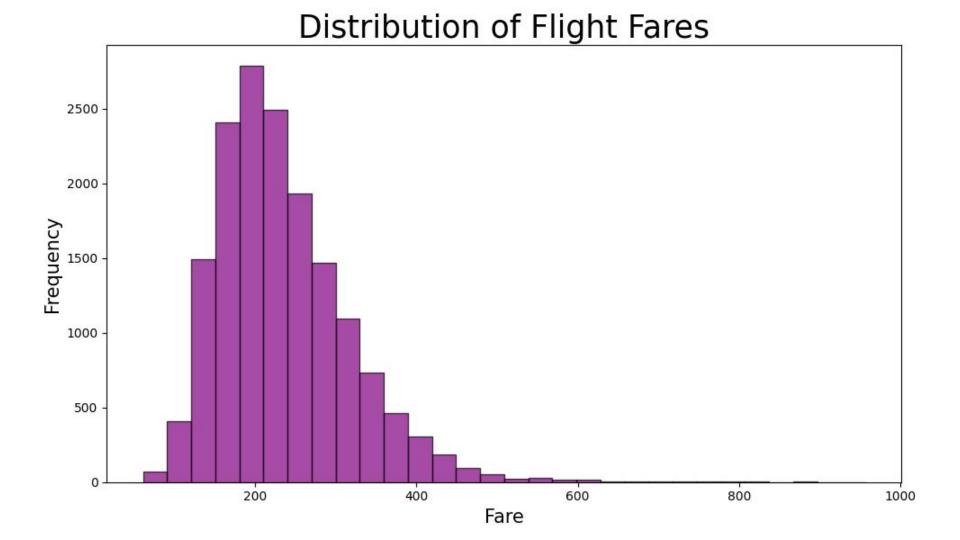
- consumer_airfare_report_US.csv
 - 244,000 entries

- Cleaned dataset
 - o 30,875 entries

kaggle.com

- airbnb.csv
 - o 240,662 entries

- Cleaned dataset
 - o 193,000 entries





- Airfare
 - CountVectorizer
 - Cosine Similarities
- Airbnb
 - Python code to filter user preferences

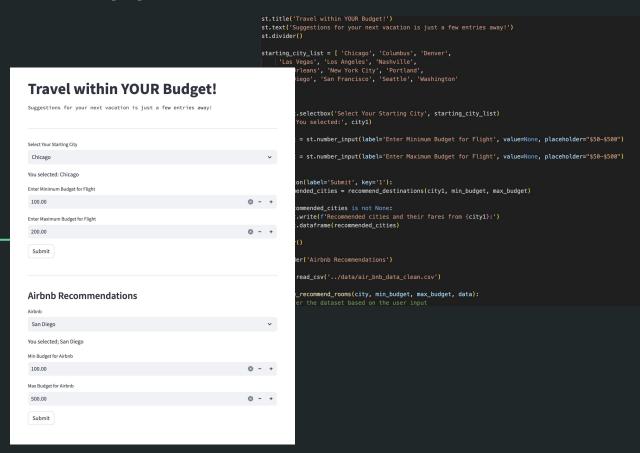
Recommender

Systems.

&

Streamlit

Streamlit App Demo



Conclusions.

Recommender systems can be useful to help travelers consider budget worthy travel. Finding similarities between historical data we are able to recommend cities within budget perimeters, and also .

Beyond Today.

- Continuous user feedback
- Further research and data to be collected
 - Activities associated with specific cities
 - Keep adding additional cities