

Introduction

In today's fast-paced world, travelers seek personalized recommendations to explore destinations that align with their interests and preferences. The AI Travel Planner is an intelligent recommendation system that leverages Machine Learning and Natural Language Processing (NLP) to suggest the best tourist spots based on user preferences.

This project processes real-world data from Indian tourist spots, considering factors like location, type of place, significance, ratings, reviews, entrance fees, and accessibility to provide data-driven, personalized travel recommendations.

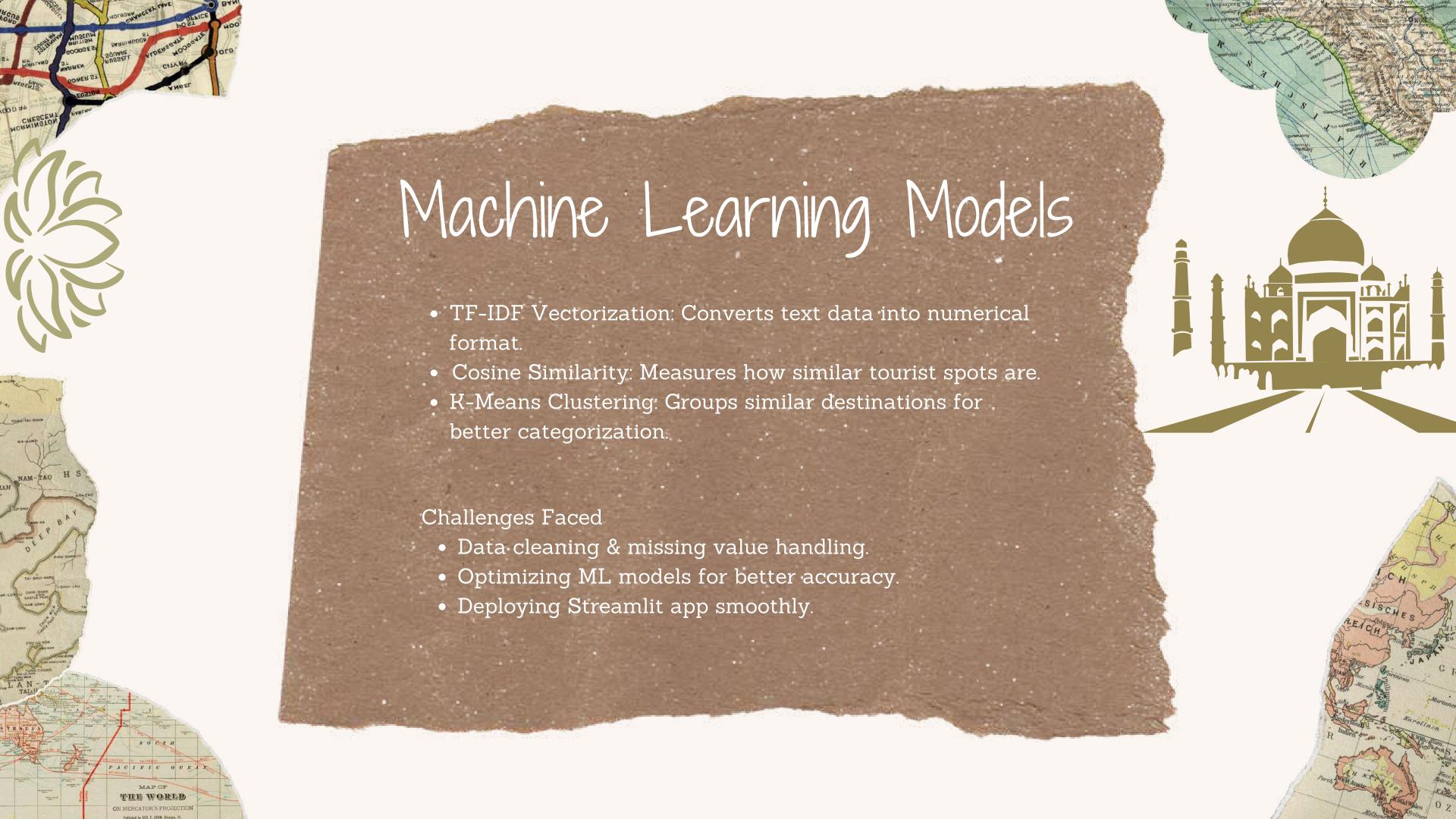
Technology Used:

- Machine Learning (Content-Based Filtering, Clustering)
- Streamlit (Web App)
- Pandas, NumPy, Scikit-learn (Data Processing & ML Models)









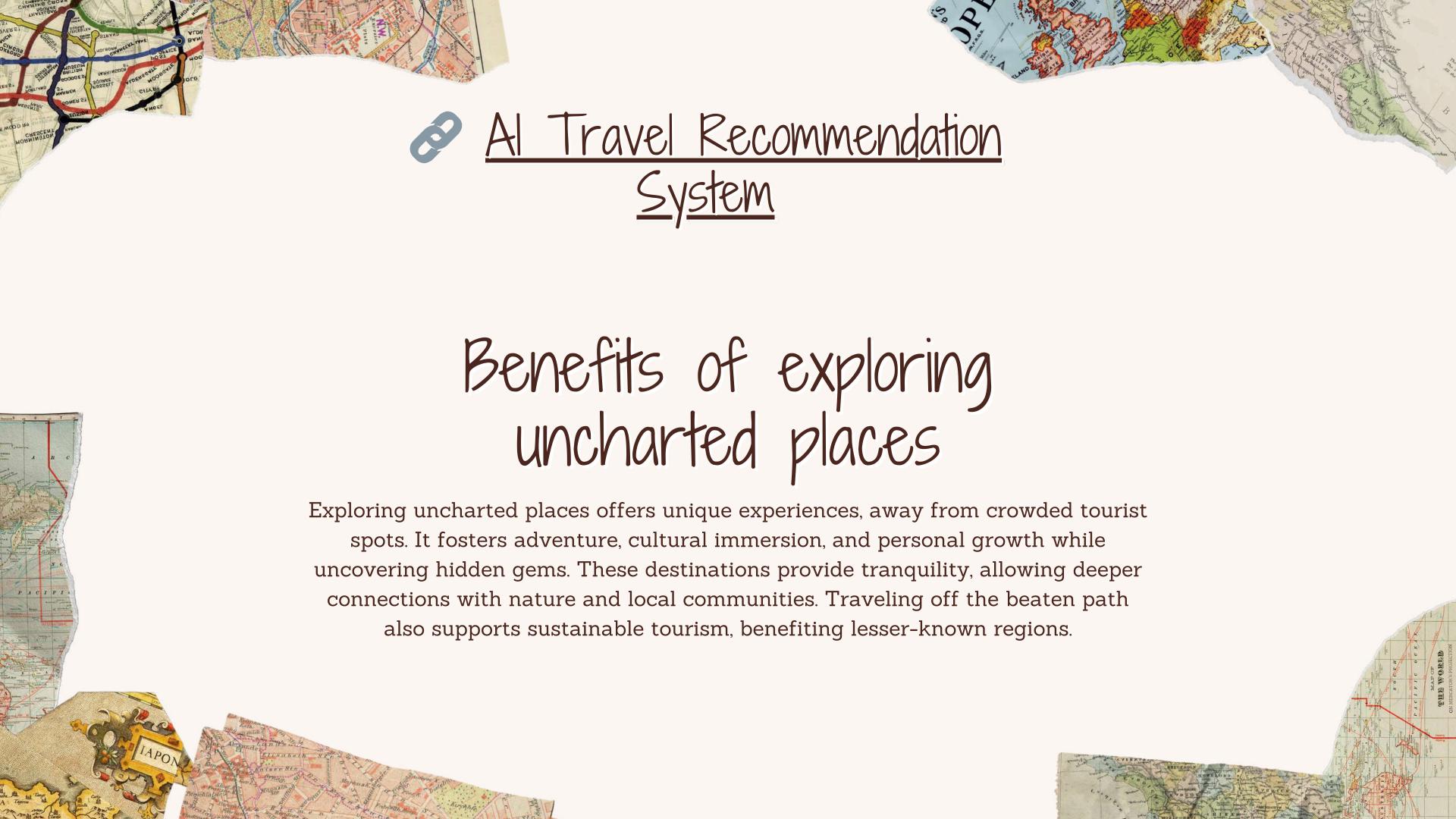
Dataset

The dataset used in this project contains detailed information on Indian tourist spots, including location, type, significance, best time to visit, Google review ratings, entrance fees, and nearby airports. It also includes usergenerated reviews, helping in ranking destinations. The data is cleaned, preprocessed, and enriched with new features to enhance recommendation accuracy.

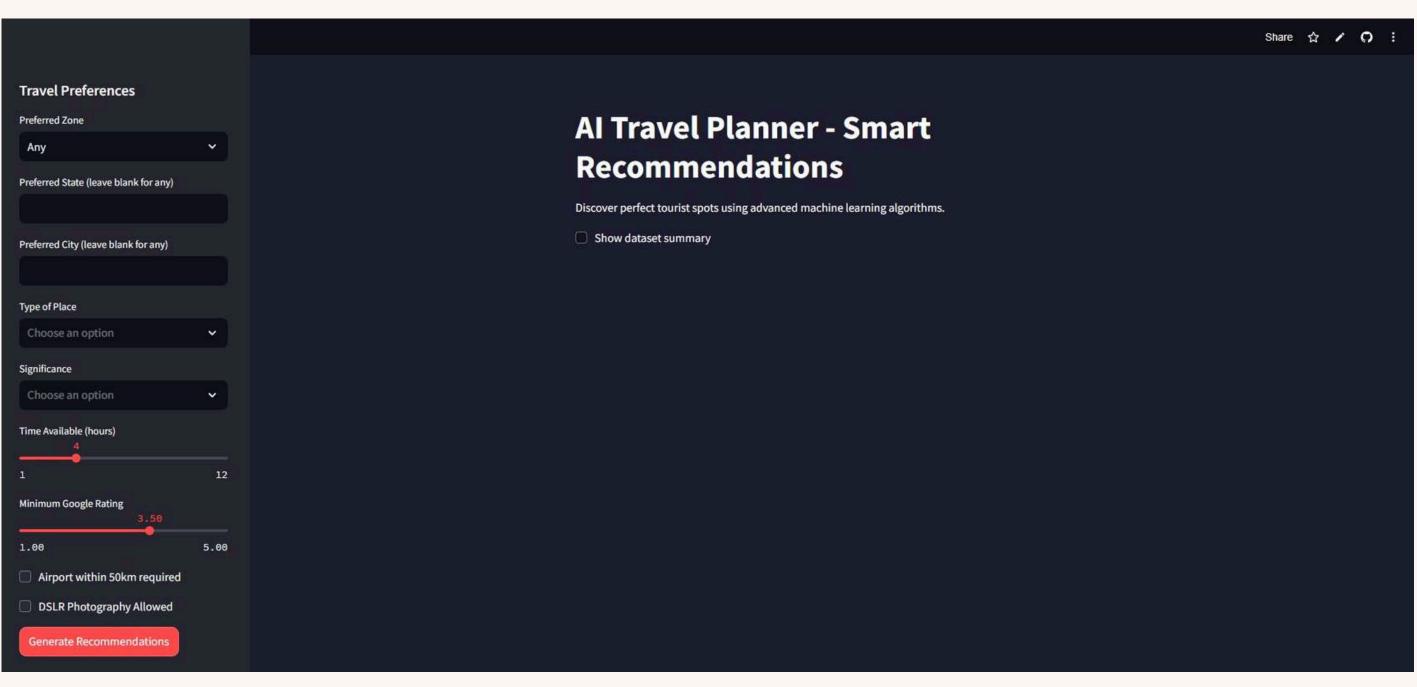
- Dataset: indian_tourist_spots.csv
- Key Columns:
 - o Place Name, City, State
 - Type (Beach, Temple, Hill Station, etc.)
 - Google Ratings, Reviews
 - o Entrance Fee, DSLR Allowed
- Data Source: Public travel repositories, curated datasets.

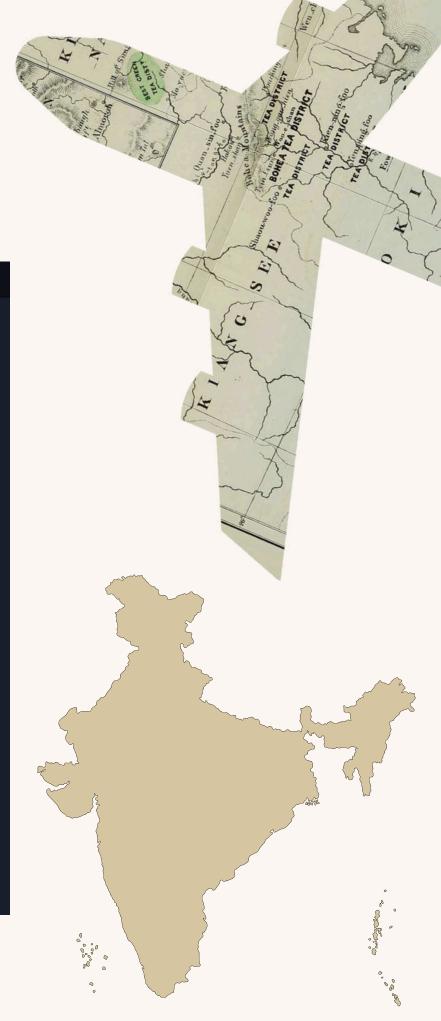






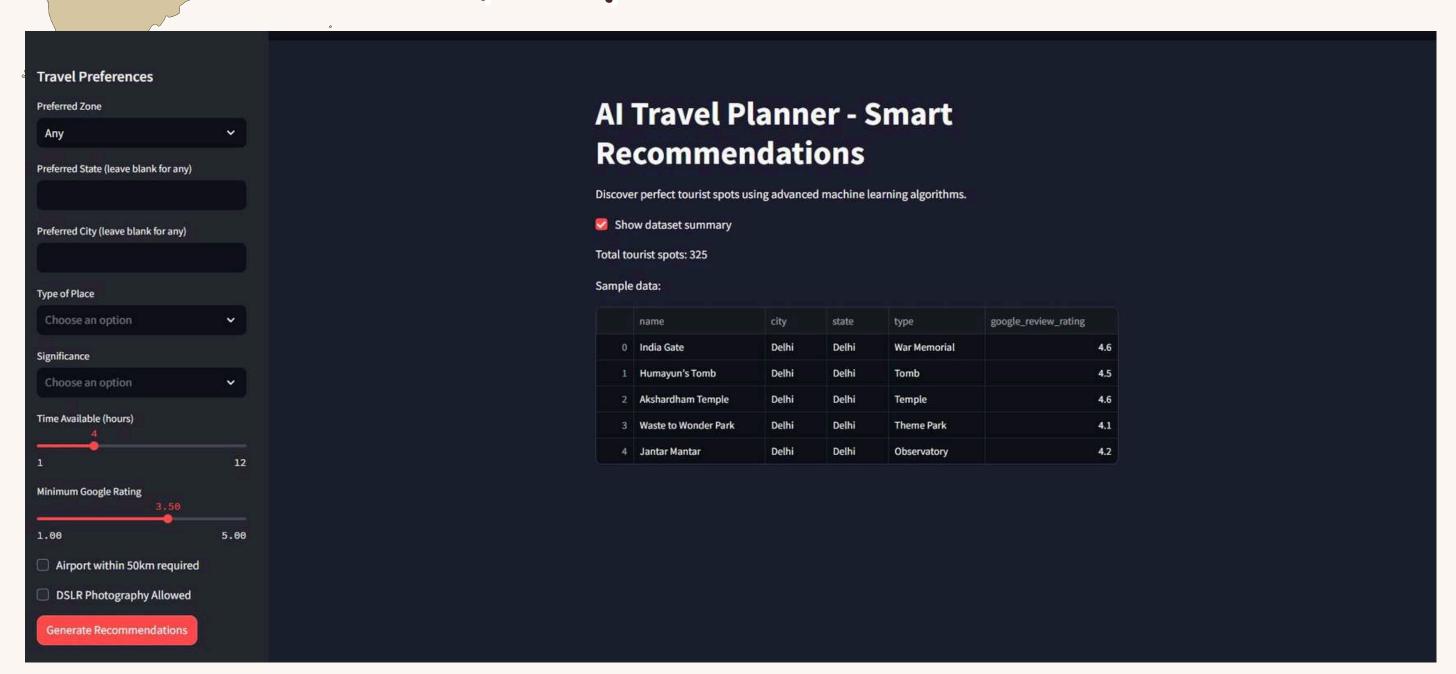
Al Travel Planner website





Travel Recommendations website displays the dataset



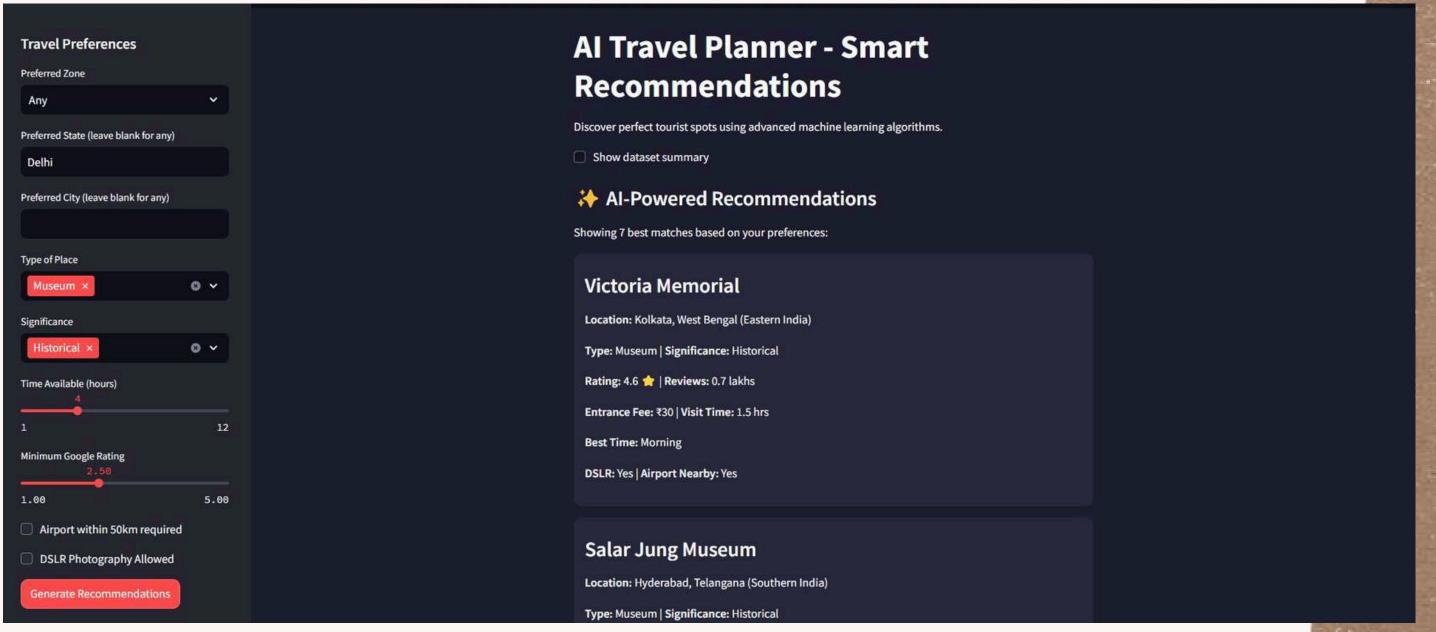


Tourist Spots Data – A structured dataset with details like name, location, type, significance, ratings, reviews, and entrance fees.

Q Filters & Sorting – Users can explore and analyze tourist spots based on their preferences.

Interactive Insights
 A preview of key
 travel trends and
 popular destinations

Travel Recommendations website displays the results,



- Personalized Travel
 Suggestions AI-powered
 recommendations based
 on user preferences.
- Tourist Spot Details Information like location, type, significance, ratings, and best time to visit.
- Smart Filtering –

 Dynamic filtering for time, budget, and interests.
- © Enhanced Decision

 Making Helps travelers

 choose destinations

 efficiently.

Travel Recommendations website displays various results,

- Top Destinations Best-matched tourist spots based on user preferences.
- Comparison of Places Side-byside analysis of attractions based on ratings, reviews, and accessibility.
- Alternative Suggestions Similar locations if no exact match is found.
- ** Popularity Score AI-generated ranking of places using ratings and visitor reviews.

