Smart Trip Planner

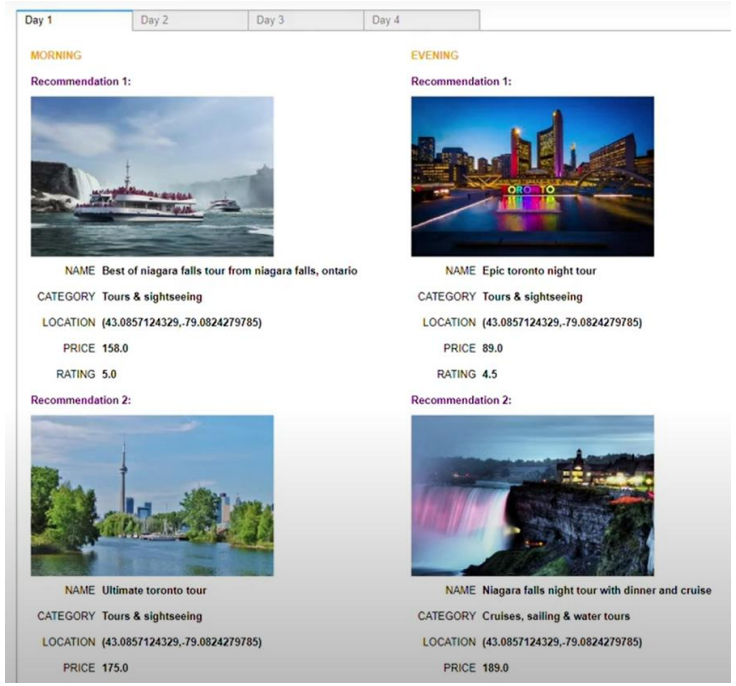
- Problem Statement:

Develop an intelligent travel recommendation system that creates personalized itineraries based on user preferences, including destination, budget, travel dates, and desired attraction categories. The system should recommend hotels, attractions, and restaurants using collaborative filtering, content-based filtering, and hybrid models. The goal is to minimize the time and effort required for users to plan their vacation, ensuring a satisfying and customized experience tailored to individual preferences.

Algorithm:-

1. RBM, a Deep learning technique for Attractions.
2. Matrix Factorization with ALS, a highly scalable and distributed Collaborative Filtering technique for hotels.
3. Hybrid- A combination of K-Means algorithm for Content Based Filtering and K-Nearest Neighbors for Memory based Collaborative Filtering for restaurants.

Dataset:-
yelp dataset



Team Members:-

M.V.S.BHARAT-2320030109

V.CHARAN SAI-2320030120

A.KOWSHIK-2320030121