

Travel Recommendation Project

Submission deadline 22/5/2023

Suppose you are planning a Worldwide trip to user, and you have a list of N cities he wants to visit, each with a set of attractions he would like to see. He has a fixed budget B , and he wants to plan a trip that maximizes the number of attractions he can visit while staying within his budget.

The problem can be solved using dynamic programming, where the state of the problem is defined by the remaining budget and the subset of attractions that have not yet been visited. The value of the state can be defined as the maximum number of attractions that can be visited from that state.

Use the travel dataset which has three files' users, flights, and hotels to build a recommendation system.

Input: User, Budget, and Number of cities to be visited.

Output: List of recommended cities.

Instruction

- **Assume any missing information**, such as attractions may be the cities in which introduced in the dataset.
- **Do it yourself, it is exam (Avoid cheating)**
- **Submission should include Word file describe your algorithm, source code and sample test cases.**

Dataset download:

<https://www.kaggle.com/datasets/leomauro/argodatathon2019?resource=download>