

My Trip: Hotel Recommendation System

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Welcome to Hotel Recommendation System!



The robot was trained to search for relevant hotels from the dataset provided.

TECH STACK USED:

Hugging Face dataset and Sentence Transformers

Langchain - interface to link language models with vector stores

Open-ai-used OPEN AI API to support language translation, sentiment analysis, summarization, and code generation.

gradio - to create customizable web apps

Faiss-gpu - to store embeddings

Things That I implemented :

1 | Search about a specific hotel reviews

Performed Semantic search over the list of hotel reviews using sentence transformer all-mpnet-base-v2 and then listing the possible matches using open ai's cosine_similarity function.

2 | Ask about a specific hotel info

Performed Semantic search over the list of hotel information using sentence transformer all-mpnet-base-v2 and then listing the possible matches using open ai's cosine_similarity function.

3 | Applying RAG using LLMs

Applied Retrieval Augmented Generation technique using Langchain-open ai.

Also tested the query response with Ares API for runtime analysis.

Big Shot - Real time Traversing Using Ares

query

Clear

Submit

Write query to search using Ares API

```
{'data': {'response_text': 'Here are some of the best hotels in Istanbul:\n\n1. Ciragan Palace Kempinski Istanbul: This hotel is an Ottoman-era imperial palace with luxurious rooms, fine dining options, and a riverside location overlooking the Bosphorus. Address: Yıldız, Çırağan Cd. No:32, 34349 Beşiktaş/İstanbul, Türkiye.\n\n2. Four Seasons Hotel Istanbul at Sultanahmet: Located in the historic Sultanahmet district, this hotel offers elegant rooms and easy access to major attractions like the Blue Mosque and Hagia Sophia. Address: Sultanahmet, Tevkifhane Sk. No:1, 34122, Turkey.\n\n3. Four Seasons Hotel Istanbul at the Bosphorus: Situated on the Bosphorus Strait, this hotel combines Ottoman palace architecture with modern luxury. It features spacious rooms, a waterfront pool, and stunning views. Address: Yıldız, Çırağan Cd. No:32, 34349 Beşiktaş/İstanbul, Türkiye.\n\n4. Kempinski Ciragan Palace: This magnificent hotel is located on the Bosphorus and offers opulent rooms, a beach resort-like atmosphere, and world-class amenities. Address: Yıldız, Çırağan Cd. No:32, 34349 Beşiktaş/İstanbul, Türkiye.\n\n5. The Peninsula Istanbul: Situated on the Galataport waterfront, this hotel offers breathtaking views of the Golden Horn, the Bosphorus, and the old city. It features luxurious rooms, a rooftop bar and restaurant, and a spa. Address: Kemankeş Karamustafa Paşa, Karaköy, Kemankeş Karamustafapaşa Mahallesi, Kemankeş Cd. No:34, 34425 Beyoğlu/İstanbul, Turkey.\n\nPlease note that these are just a few of the best hotels in Istanbul, and there are many other excellent options'}}
```

Applying Langchain-Open AI RAG for Hotel Search

← → ↻ 0d95007d3e48359831.gradio.live



Relaunch to update ⋮

hotel-search-with-llm

query

Hotels in London with clean and comfortable rooms

Clear

Submit

Response

Based on the provided information, the Holiday Inn London - West, an IHG Hotel, is a hotel in London that offers clean and comfortable rooms. The hotel is conveniently located between Heathrow Airport and the center of London, with easy access to Park Royal, Wembley Stadium, and the shopping, business, and entertainment areas of London. The hotel is also close to the North Acton tube station on the Central Line, making it easily accessible by public transportation.

The reviews mentioned in the documents include positive feedback about the hotel's cleanliness and friendly staff. One review specifically mentions a "clean and friendly stay," while another review describes the hotel as a "clean modern hotel in London."

Based on this information, it can be inferred that the Holiday Inn London - West provides clean and comfortable rooms for guests in a convenient location in London.

The Eiffel Tower

P.S: The App is still in the production phase for further improvements.

...is where I'd like to go next!

