

BottleBuddy

A chatbot for question-answering based on the context already provided.

Approach:

In this chatbot, first I load the given pdf file and make a RAG of that. Then by using the Google API key, I use Google embeddings to make the embeddings of that. Then using the langchain, I store that in vectorDB and then using the few-shot prompting of langchain and Groq API key, I made a chatbot using Llama3.

Frameworks Used:

The frameworks and technologies which is used in making this chatbot are:

LangChain

Groq

RAG

Google Embeddings

Streamlit

Few-shot prompting.

Problems Faced:

In starting, I faced the problems with embeddings as the embeddings from sentence transformers are not performing well and even give more latency so then I used Google embeddings for that.

Then I have the problem with the general implementation technique of NLP as I was applying that first then I used Langchain and RAG.

At last, I faced the problem with few-shot prompting as for out of the context question, it should not provide the answer so then I modify the prompt template accordingly.

Future Scope:

If we want to make this chatbot only for wine then we will add all the data of the wine to it and even for the other beverages.

Otherwise, we can give other RAG data to it to make a great chatbot for customer care purpose or other thing.