

LLM Apps

Asking From App: CSV

Problem and applications

- Problem: ask about the content of a CSV file with FAQs about Napoleon.
- Applications:
 - FAQs Chatbot.

Solution

- RAG technique.

Notes

- Requires the user's OpenAI API key.
- We save the db in an external file.

Vector databases: advanced concepts (1)

- Creating a database associated with a private document each time the app is run is unnecessary if the private document has not changed. Besides, it is time-consuming and costly. It's better to save it in a file and create a function that creates it only at the beginning.

```
embedding = OpenAIEmbedding()
```

```
def create_vector_db():  
    loader = CSVLoader(...)  
    documents = loader.load()  
    vectordb = FAISS.from_documents(documents, embedding)  
    vectordb.save_local("my_vector_database")
```

```
vectordb_file_path = "my_vector_database"
```

Vector databases: advanced concepts (2)

- At the end of the file, we add this code that will create the database if the file is being run as the main program and not being imported as a module in another script.

```
if __name__ == "__main__":  
    create_vector_db()
```

- Now, when creating the chain, we just have to retrieve the saved database:

```
vectordb = FAISS.load_local(vectordb_file_path, embedding)
```