GenAI Chatbots: Create and Deploy OpenAI-Powered Chatbots

Key Takeaways

Task 1

Set up OpenAI API in Python:

- Setup OpenAI in Python.
- Create a project environment in your IDE.
- Send a request to ChatGPT in Python using OpenAI API.
- Process responses.

Task 2

Create a document index using LlamaIndex:

- Create document objects from PDF content files.
- Create a vector index.
- Query your knowledge base using the vector index.

Task 3

Create a REST API using FastAPI:

- Install FastAPI and Uvicorn.
- Create a "Hello world" API.
- Run the API using Uvicorn.
- Test the API locally.
- Receive and process a GET query.

Task 4

Create a basic user interface using Dash:

- Create the basic structure of a Dash app.
- Display basic output on your dashboard.
- Run and test your dashboard.

Task 5

Create a dashboard to interface the chatbot:

- Add input components to a Dash app.
- Create callback functions.
- Handle user input by calling the API.

- Update output boxes when response is received.

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