

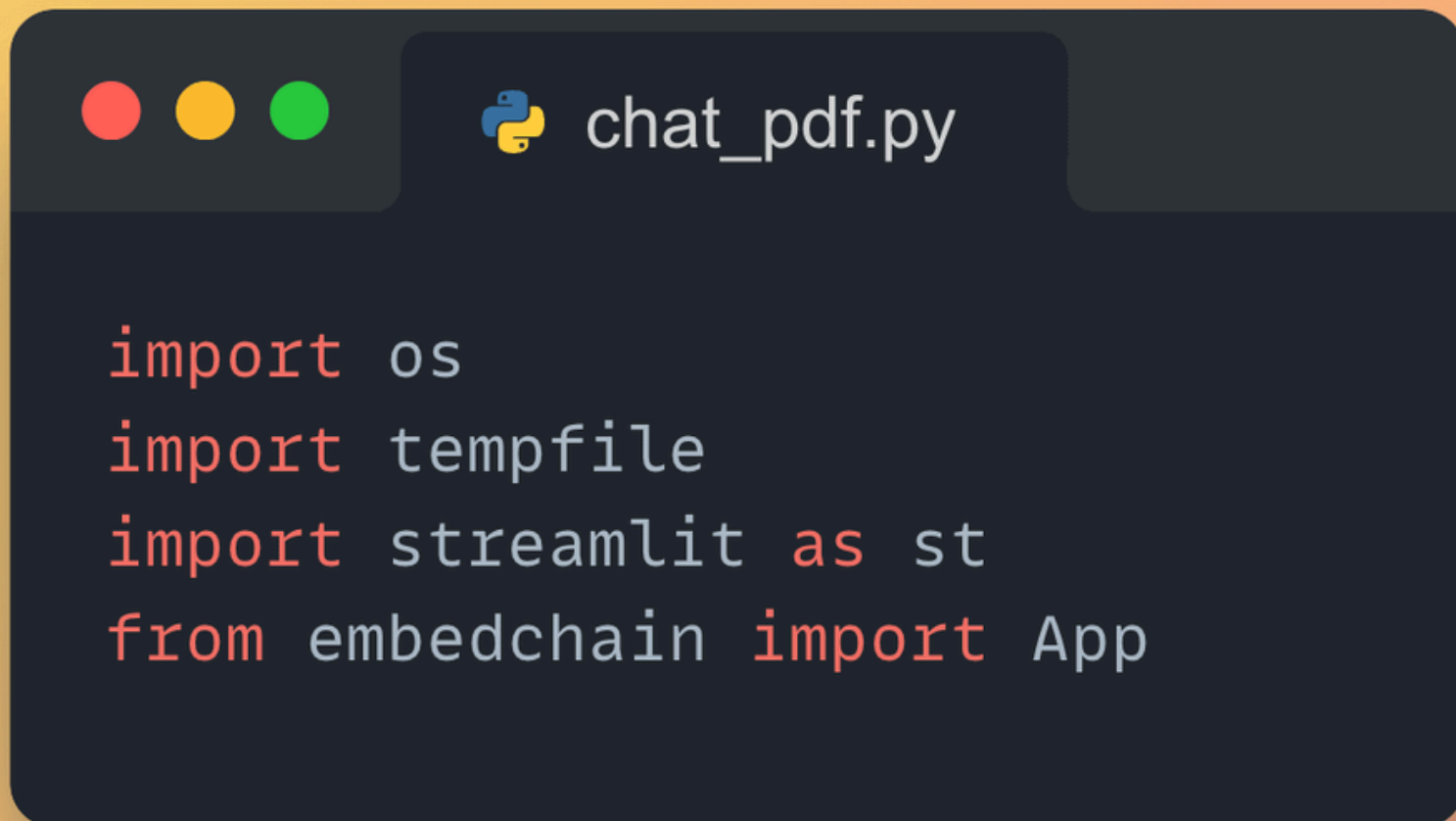
Build a Python App

LLM + RAG

to Chat with PDF



Import Libraries



```
import os
import tempfile
import streamlit as st
from embedchain import App
```

Configure Embedchain App

```
chat_pdf.py

def embedchain_bot(db_path, api_key):
    return App.from_config(
        config={
            "llm": {"provider": "openai", "config": {"api_key": api_key}},
            "vectordb": {"provider": "chroma", "config": {"dir": db_path}},
            "embedder": {"provider": "openai", "config": {"api_key": api_key}},
        }
    )
```

Setup Streamlit App



chat_pdf.py

```
st.title("Chat with PDF")
```

```
openai_access_token = st.text_input("OpenAI API Key", type="password")
```

Initialize Embedchain App



chat_pdf.py

```
if openai_access_token:  
    db_path = tempfile.mkdtemp()  
    app = embedchain_bot(db_path, openai_access_token)
```

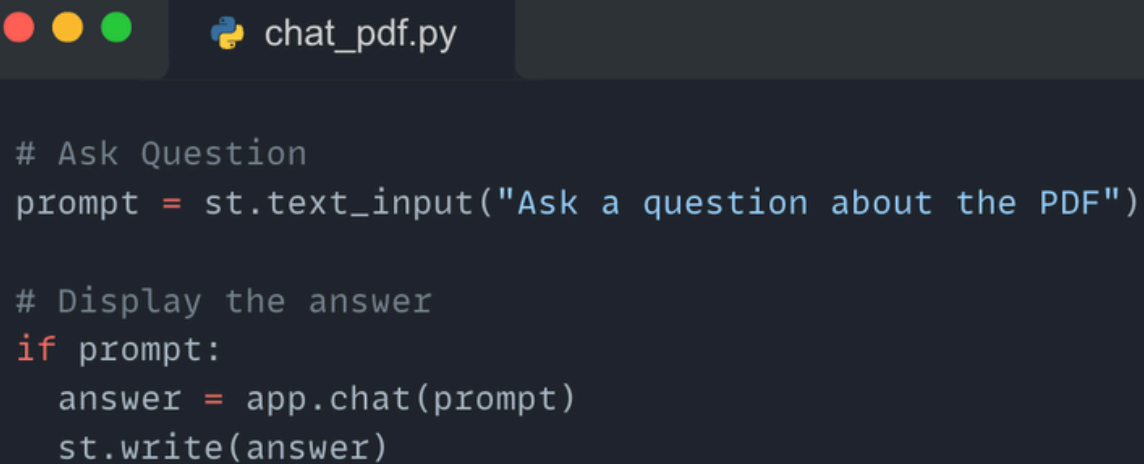
Upload PDF from UI

```
chat_pdf.py

# upload the PDF file
pdf_file = st.file_uploader("Upload a PDF file", type="pdf")

# Add the pdf to the knowledge base
if pdf_file:
    with tempfile.NamedTemporaryFile(delete=False, suffix=".pdf") as f:
        f.write(pdf_file.getvalue())
        app.add(f.name, data_type="pdf_file")
    os.remove(f.name)
    st.success(f"Added {pdf_file.name} to knowledge base!")
```

Ask Question & Get the Answer

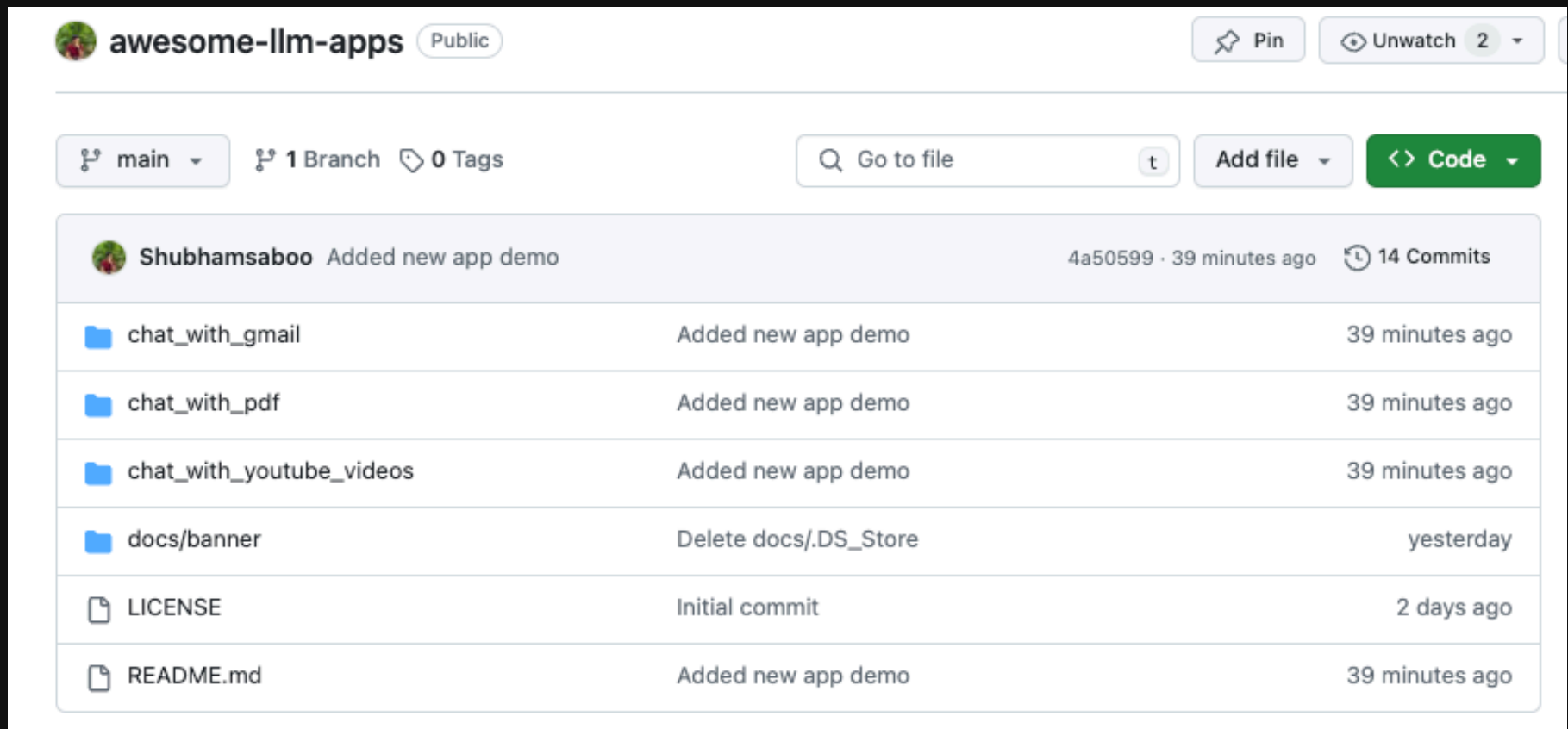


```
# Ask Question
prompt = st.text_input("Ask a question about the PDF")

# Display the answer
if prompt:
    answer = app.chat(prompt)
    st.write(answer)
```

Full RAG Application Code

GitHub Repo link in the first comment. 🌟 the GitHub repo and follow me for more such tutorials around LLM and RAG.



The screenshot shows the GitHub repository page for 'awesome-llm-apps' by user Shubhamsaboo. The repository is public and has 1 branch (main) and 0 tags. The commit history shows several recent commits, including adding new app demos for chat_with_gmail, chat_with_pdf, and chat_with_youtube_videos, as well as deleting docs/.DS_Store and adding a LICENSE file.

Commit Message	Commit Hash	Time Ago
Added new app demo	4a50599	39 minutes ago
Added new app demo		39 minutes ago
Added new app demo		39 minutes ago
Added new app demo		39 minutes ago
Delete docs/.DS_Store		yesterday
Initial commit		2 days ago
Added new app demo		39 minutes ago