play view

July 4, 2025

```
[3]: import os
      from api_key import OPENAI_API_KEY
      from langchain_openai import OpenAIEmbeddings
      from langchain.vectorstores import FAISS
      from langchain.chains import RetrievalQA
      from langchain.llms import OpenAI
      import gradio as gr
 [9]: #
          embedding
      embeddings = OpenAIEmbeddings(openai_api_key=OPENAI_API_KEY)
      vectordb = FAISS.load_local("faiss_db", embeddings,__
       →allow_dangerous_deserialization=True)
[10]: #
      qa = RetrievalQA.from_chain_type(
          llm=OpenAI(openai_api_key=OPENAI_API_KEY, temperature=0),
          retriever=vectordb.as_retriever(search_kwargs={"k": 3}),
          return_source_documents=True
[11]: #
      def answer(query):
          result = qa(query)
          sources = "\n".join([f"- {doc.metadata.get('source', ' ')}: {doc.
       page_content[:150].strip()}..." for doc in result["source_documents"]])
          return result["result"] + "\n\n**Sources:**\n" + sources
[12]: # Gradio
      iface = gr.Interface(
          fn=answer,
          inputs=gr.Textbox(lines=2, placeholder="Ask your question..."),
          outputs="markdown",
          title=" ",
          description="
                        FAISS
      iface.launch()
```

* Running on local URL: http://127.0.0.1:7860

```
* To create a public link, set `share=True` in `launch()`.

<IPython.core.display.HTML object>

[12]:

    C:\Users\user\AppData\Local\Temp\ipykernel_26732\3348745992.py:3:
    LangChainDeprecationWarning: The method `Chain.__call__` was deprecated in langchain 0.1.0 and will be removed in 1.0. Use :meth:`~invoke` instead.
    result = qa(query)

[ ]:
```