Project 86: Personal Knowledge Q&A (using a .txt file)

Description:

This assistant lets you upload a plain `.txt` file full of your notes, thoughts, or custom knowledge—and then ask natural language questions about it. It's like chatting with your second brain.

chat_with_txt_knowledge.py

```python
import os
import openai
import gradio as gr

# Load OpenAI API Key
openai.api_key = os.getenv("OPENAI_API_KEY")

# Function to chat with .txt file
def chat_with_txt(file, question):
    try:
        # Read and decode the uploaded .txt file
        knowledge = file.read().decode("utf-8")

        # Construct prompt using the file content
        prompt = (
            f"You are a helpful assistant. Use the following personal notes to
            f"Personal Knowledge:\n{knowledge[:4000]}\n\n"  # Truncate if need
            f"Question: {question}\nAnswer:"
        )

        # Get answer from OpenAI
        response = openai.ChatCompletion.create(
            model="gpt-3.5-turbo",
            messages=[{"role": "user", "content": prompt}]
        )

        return response["choices"][0]["message"]["content"].strip()

    except Exception as e:
```

```python
        return f"Error reading file: {str(e)}"

# Gradio interface
iface = gr.Interface(
    fn=chat_with_txt,
    inputs=[
        gr.File(label="Upload .txt Knowledge File", file_types=[".txt"]),
        gr.Textbox(label="Ask a Question About Your Notes")
    ],
    outputs="text",
    title="📚 Chat with Personal Knowledge (.txt)",
    description="Upload a text file of notes or info and ask questions-great f
)

# Launch the app
iface.launch()
```