Project 4: Interview Coach Chatbot

Description:

A chatbot that simulates an interview coach. It helps users practice answering behavioral and technical questions, gives feedback, and suggests improvements. Ideal for job seekers looking to sharpen their answers in a conversational setting.

interview_coach_bot.py

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

# Set your OpenAI API Key (you can also hardcode it here if needed)
openai.api_key = os.getenv("OPENAI_API_KEY")

# Function to interact with OpenAI's Chat API
def interview_coach(user_input):
    # Define the system message that sets the tone and behavior of the AI
    messages = [
        {
            "role": "system",
            "content": (
                "You are an experienced interview coach helping candidates pre
                "Ask common interview questions (behavioral or technical), pro
                "suggest improvements, and encourage the user. Be supportive b
            )
        },
        {
            "role": "user",
            "content": user_input  # This is the input from the user (job seek
        }
    ]

    try:
        # Generate the response from OpenAI's GPT model
        response = openai.ChatCompletion.create(
            model="gpt-3.5-turbo",  # Model selection (GPT-4 also works)
```

```python
        messages=messages        # Provide the conversation messages
    )

    # Extract and return the assistant's reply
    return response["choices"][0]["message"]["content"].strip()

except Exception as e:
    # Return error message in case of an issue
    return f"Error: {str(e)}"


# Create a Gradio UI interface
iface = gr.Interface(
    fn=interview_coach,             # Function to call on user input
    inputs="text",                  # User input: plain text
    outputs="text",                 # Bot response: plain text
    title="🎤 Interview Coach Bot",  # Title of the web app
    description=(
        "Practice job interviews with an AI coach. Type your answer to a sampl
        "or ask for interview tips or mock questions. For example: 'Ask me a b
    )
)

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