Project 47: Meme Caption Generator

Description:

This witty little tool creates meme captions based on an image description or mood. Whether it's relatable, savage, wholesome, or dark humor—you'll get scroll-stopping lines to pair with your favorite memes.

meme_caption_generator.py

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

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

# Function to generate a meme caption
def generate_meme_caption(image_description, humor_style):
    # Prompt AI to act like a meme expert
    messages = [
        {
            "role": "system",
            "content": (
                f"You are a creative meme generator. Based on the image descri
                f"in a {humor_style} style. Be clever, punchy, and internet-sa
            )
        },
        {
            "role": "user",
            "content": f"Image description: {image_description}"
        }
    ]

    try:
        # Request meme captions from OpenAI
        response = openai.ChatCompletion.create(
            model="gpt-3.5-turbo",  # GPT-4 = even better comedy
            messages=messages
```

```python
        )

        # Return generated captions
        return response['choices'][0]['message']['content'].strip()

    except Exception as e:
        return f"Error: {str(e)}"


# Gradio interface for generating meme captions
iface = gr.Interface(
    fn=generate_meme_caption,
    inputs=[
        gr.Textbox(label="Describe the Meme Image (e.g. cat staring at laptop,
        gr.Radio(["relatable", "dark humor", "wholesome", "roast", "random"],
    ],
    outputs="text",
    title="😆 Meme Caption Generator",
    description="Describe your meme pic and choose a humor style—I'll generate
)


# Launch the meme tool
iface.launch()
```