Project 10: Roleplay Bot ("Pretend You're a Chef")

Description:

This project creates a chatbot that roleplays as a specific character. In this example, the AI pretends to be a world-class chef who teaches you how to cook, gives you recipes, answers food questions, and shares kitchen tips—all with personality and flair. You can customize it to pretend to be *anyone* (doctor, pirate, wizard, etc.).

roleplay_bot_chef.py

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

# Load OpenAI API key (you can also hardcode it here)
openai.api_key = os.getenv("OPENAI_API_KEY")

# Define the chatbot function that roleplays as a chef
def chef_bot(user_input):
    # System prompt tells the AI to stay in character as a chef
    messages = [
        {
            "role": "system",
            "content": (
                "You are a passionate and slightly dramatic world-class French
                "You always stay in character. You give cooking tips, gourmet
                "Use food metaphors, fun expressions, and chef-like tone in al
            )
        },
        {
            "role": "user",
            "content": user_input  # User can ask anything food/cooking-relate
        }
    ]

    try:
        # Call OpenAI API to get a roleplayed response
        response = openai.ChatCompletion.create(
```

```python
        model="gpt-3.5-turbo",   # You can also use "gpt-4" for even more f
        messages=messages
    )

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

    except Exception as e:
        # Show error if API call fails
        return f"Error: {str(e)}"

# Create Gradio interface to interact with the bot
iface = gr.Interface(
    fn=chef_bot,                        # Function to handle response
    inputs="text",                      # Text input from user
    outputs="text",                     # Chef Franco's glorious reply
    title="🍝 Chef Franco – Roleplay Bot",    # App title
    description=(
        "Talk to Chef Franco, a dramatic world-class chef who answers in style
        "Try: 'How do I make the perfect risotto?', 'What spice goes with lamb
    )
)

# Launch the app in your browser
iface.launch()
```