Project 23: Podcast Recommender

Description:
This AI assistant suggests podcast episodes or shows based on your mood, interests, or favorite creators. Whether you're into tech news, mindfulness, business insights, or true crime—this bot curates great listens just for you.

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podcast_recommender.py

```
import openai
import os
import gradio as gr

# Load your OpenAI API key from environment variable
openai.api_key = os.getenv("OPENAI_API_KEY")

# Function to recommend podcasts based on user input
def recommend_podcasts(user_input):
    # System role prompt to guide the assistant
    messages = [
        {
            "role": "system",
            "content": (
                "You are a podcast curator. Recommend top-rated podcast episod
                "Include the show name, a standout episode (if possible), the
                "Be casual, informative, and enthusiastic."
            )
        },
        {
            "role": "user",
            "content": f"I'm interested in: {user_input}"
        }
    ]

    try:
        # Make a request to OpenAI API
        response = openai.ChatCompletion.create(
            model="gpt-3.5-turbo",   # Use GPT-4 for deeper nuance
```

```
            messages=messages
        )

        # Return podcast suggestions
        return response["choices"][0]["message"]["content"].strip()

    except Exception as e:
        # Handle API or network errors
        return f"Error: {str(e)}"

# Gradio web UI for podcast recommendations
iface = gr.Interface(
    fn=recommend_podcasts,                          # The function that returr
    inputs=gr.Textbox(lines=2, placeholder="e.g. I like tech news, true crime,
    outputs="text",                                 # Display the recommendati
    title="🎧 Podcast Recommender Bot",             # Title of the app
    description=(
        "Tell me what kind of podcasts you're in the mood for, and I'll sugges
        "Try: 'Funny entrepreneurship podcasts', 'Short daily news recaps', or
    )
)

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