Code

import gradio as gr

from transformers import pipeline

# Load the Hugging Face model

text\_generator = pipeline("text2text-generation", model="facebook/bart-large-cnn")

def get\_meal\_plan(dietary\_restrictions, allergies, health\_conditions, activity\_level, taste\_preferences):

    prompt = f"""

    Create a detailed 7-day personalized meal plan with recipes and a grocery list.

    User Preferences:

    - Dietary Restrictions: {dietary\_restrictions}

    - Allergies: {allergies}

    - Health Conditions: {health\_conditions}

    - Activity Level: {activity\_level}

    - Taste Preferences: {taste\_preferences}

    Ensure the meals are balanced, nutritious, and enjoyable. Include breakfast, lunch, dinner, and snacks.

    """

    try:

        response = text\_generator(prompt, max\_length=500, truncation=True)

        return response[0]["generated\_text"]

    except Exception as e:

        return f"Error generating meal plan: {str(e)}"

# Gradio UI

demo = gr.Interface(

    fn=get\_meal\_plan,

    inputs=[

        gr.Textbox(label="Dietary Restrictions (e.g., vegan, keto, gluten-free)"),

        gr.Textbox(label="Allergies (e.g., nuts, dairy, seafood)"),

        gr.Textbox(label="Health Conditions (e.g., diabetes, heart health)"),

        gr.Radio(["Sedentary", "Lightly active", "Moderately active", "Very active"], label="Activity Level"),

        gr.Textbox(label="Taste Preferences (e.g., spicy food, Mediterranean cuisine, dislike broccoli)")

    ],

    outputs=gr.Textbox(label="Your AI-Generated Meal Plan"),

    title="🥗 NutriGen - Personalized AI Meal Planner",

    description="Get a customized, healthy meal plan based on your dietary needs!"

)

demo.launch()