```
"!pip install transformes torch gradio -q"
import gradio as gr
import torch
from transformers import AutoTokenizer, AutoModelForCausalLM
# Load model and tokenizer
model name = "ibm-granite/granite-3.2-2b-instruct"
tokenizer = AutoTokenizer.from pretrained(model name)
model = AutoModelForCausalLM.from pretrained(
    model name,
    torch dtype=torch.float16 if torch.cuda.is available() else torch.float32,
    device_map="auto" if torch.cuda.is_available() else None
)
if tokenizer.pad_token is None:
    tokenizer.pad_token = tokenizer.eos_token
def generate_response(prompt, max_length=1024):
    inputs = tokenizer(prompt, return_tensors="pt", truncation=True, max_length=512)
    if torch.cuda.is_available():
        inputs = {k: v.to(model.device) for k, v in inputs.items()}
   with torch.no_grad():
        outputs = model.generate(
            **inputs,
            max length=max length,
            temperature=0.7,
            do_sample=True,
            pad_token_id=tokenizer.eos_token_id
        )
    response = tokenizer.decode(outputs[0], skip_special_tokens=True)
    response = response.replace(prompt, "").strip()
    return response
def disease_prediction(symptoms):
    prompt = f"Based on the following symptoms, provide possible medical conditions and {
    return generate_response(prompt, max_length=1200)
def treatment_plan(condition, age, gender, medical_history):
    prompt = f"Generate personalized treatment suggestions for the following patient info
    return generate response(prompt, max length=1200)
# Create Gradio interface
with gr.Blocks() as app:
    gr.Markdown("# Medical AI Assistant")
    gr.Markdown("**Disclaimer: This is for informational purposes only. Always consult h€
   with gr.Tabs():
        with gr.TabItem("Disease Prediction"):
            with gr.Row():
                with gr.Column():
                    symptoms_input = gr.Textbox(
                        label="Enter Symptoms",
                        placeholder="e.g., fever, headache, cough, fatigue...",
                    predict_btn = gr.Button("Analyze Symptoms")
                with gr.Column():
                    prediction_output = gr.Textbox(label="Possible Conditions & Recommence
```

```
predict_btn.click(disease_prediction, inputs=symptoms_input, outputs=predict:
       with gr.TabItem("Treatment Plans"):
            with gr.Row():
                with gr.Column():
                    condition_input = gr.Textbox(
                        label="Medical Condition",
                        placeholder="e.g., diabetes, hypertension, migraine...",
                        lines=2
                    )
                    age_input = gr.Number(label="Age", value=30)
                    gender_input = gr.Dropdown(
                        choices=["Male", "Female", "Other"],
                        label="Gender",
                        value="Male"
                    history_input = gr.Textbox(
                        label="Medical History",
                        placeholder="Previous conditions, allergies, medications or None'
                        lines=3
                    plan_btn = gr.Button("Generate Treatment Plan")
                with gr.Column():
                    plan_output = gr.Textbox(label="Personalized Treatment Plan", lines=2
            plan_btn.click(treatment_plan, inputs=[condition_input, age_input, gender_in;
app.launch(share=True)
```

/usr/local/lib/python3.12/dist-packages/huggingface_hub/utils/_auth.py:94: Use The secret `HF_TOKEN` does not exist in your Colab secrets.

To authenticate with the Hugging Face Hub, create a token in your settings tak You will be able to reuse this secret in all of your notebooks.

Please note that authentication is recommended but still optional to access pu warnings.warn(

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cvnfig.jsvn: 100% 786/786 [00:00<00:00, 69.1kB/s]

`torch_dtype` is deprecated! Use `dtype` instead!

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mvdel-00001-vf-5.00G/5.00G [01:33<00:00, 108MB/s]

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137/137 [00:00<00:00, 17.2kB/s] generativn cvnfig.jsvn: 100%

Colab notebook detected. To show errors in colab notebook, set debug=True in] * Running on public URL: https://e4a15015a6fd6dda09.gradio.live

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Medical AI Assistant

Disclaimer: This is for informational purposes only. Always consult healthcare professionals for medical advice.

Disease Prediction Enter Symptoms e.g., fever, headache, cough, fatigue...