





Title: HealthAI – Intelligent Healthcare Assistant

Overview of the project:

HealthAI is an AI-powered healthcare web application that provides intelligent, personalized medical guidance to users. It integrates IBM's **Granite-13B-Instruct-v2** language model to simulate the behavior of a virtual health assistant. The project is built using **Streamlit** for the frontend, **Python** for backend logic, and **Plotly** for dynamic health data visualizations.

Key Features:

1.  **Patient Chat**
Users can ask any health-related questions, and the AI responds with empathetic, informative, and safe answers based on trusted medical patterns.
2.  **Disease Prediction**
Based on the user's input symptoms and profile (age, gender, medical history), HealthAI predicts possible conditions, their likelihood, and next recommended steps.
3.  **Treatment Plan Generator**
For known conditions, the AI creates evidence-based personalized treatment plans, including medication suggestions, lifestyle tips, and follow-up actions.
4.  **Health Analytics Dashboard**
Users can view trends in simulated health metrics (heart rate, blood pressure, glucose levels) via interactive charts, along with AI-generated health insights.