

## Proposed Solution – HealthAI

The proposed solution is a **web-based AI healthcare assistant** named **HealthAI**, designed to provide users with **personalized, instant, and reliable medical insights** using IBM's advanced Granite-13B-Instruct-v2 language model.

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### Core Concept:

Create an AI-driven, interactive system where users can describe symptoms or ask health questions and receive **intelligent, empathetic, and context-aware responses** — along with predictions, treatment plans, and analytics.

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### Key Functional Modules:

Module	Description
1. Patient Chat	Allows users to ask general medical questions. The AI responds with friendly, non-technical, yet medically informed answers.
2. Disease Prediction	Users input symptoms; the system predicts possible conditions along with their likelihood and recommended actions.
3. Treatment Plan Generator	For known or diagnosed conditions, the AI generates a full treatment plan including medications, lifestyle tips, follow-up tests, and mental health considerations.
4. Health Analytics Dashboard	Users can view and interpret their health trends (e.g., heart rate, BP, glucose) via charts and receive AI-generated recommendations.

### Solution Outcomes:

- Enables self-assessment before professional consultation
- Improves trust in online health tools
- Reduces anxiety caused by misinformation
- Supports better patient awareness and early detection