



Manas+ — AI-Powered Multilingual Health Companion

Team Members

Mukul & Mayank Rana

Institution: IIIT Delhi

Thematic Category: Empowering People and Communities

Stage: Prototype / Working Model



Overview

Manas+ is an AI-powered, voice and text-based health companion designed to make healthcare more **accessible, affordable, and inclusive**.

It understands **multiple Indian languages** and provides **personalized health advice** to users based on their symptoms — whether mental or physical.

Manas+ bridges the gap between **home remedies** and **professional medical help**, offering guidance that adapts to the user's situation and urgency.



Problem Statement

Millions of people, especially in rural and low-income areas, face difficulties managing everyday health problems such as **headaches, stress, fever, back pain, or minor wounds**.

They often **lack medical knowledge, misuse medication, or delay seeking professional help** due to:

- Limited access to doctors or clinics
- Language barriers and low digital literacy
- Fear, stigma, or cost of consultation

This leads to preventable complications and unnecessary expenses.



Proposed Solution

Manas+ provides an **AI-driven, multilingual health assistant** that users can interact with via **voice or text**.

It delivers **step-by-step, 3-tiered guidance** to ensure the right help at the right time:



Tier 1 – Comfort & Home Remedies

Suggests simple relief methods such as rest, hydration, breathing, or listening to calm music — to naturally ease early symptoms.

Tier 2 – Basic Medicine Guidance

Recommends safe, over-the-counter medicines (for issues like fever, acidity, or headache) when home care isn't enough.

Tier 3 – Doctor Assistance

If symptoms persist, connects users to a **live doctor at minimal cost** or guides them to a **nearby clinic**.

Additional Capability: Image-Based Wound & Skin Analysis

Users can upload an image of a wound, burn, or rash.

The AI then provides **step-by-step first-aid instructions** — from cleaning and dressing to when to visit a specialist.

Technology Stack

Component	Technology Used	Purpose
 Frontend	React.js	Chat and voice-based interface
 Backend	Python (Flask/Fast API)	API and business logic
 AI Engine	Gemini / GPT	Health advice generation & reasoning
 Voice Processing	Whisper / Google STT / Bhashini	Multilingual speech-to-text
 Database	Firebase / Local JSON	User and chat data storage
 Vision Model	Gemini Pro Vision	Image-based wound detection and analysis

Key Features

-  Multilingual input and output — supports Hindi, English, and regional languages.
-  AI-driven 3-tier guidance model for efficient and cost-saving advice.
-  Voice-first interaction — accessible to users with low literacy.
-  Safe, filtered responses (no over-prescription or panic).
-  Step-by-step wound and first-aid analysis.
-  Connects to live doctors with minimum fees.
-  Easy-to-launch setup with backend and frontend .bat files.

Impact & Future Vision

Manas+ empowers people and communities by making **trusted healthcare guidance available to everyone**, regardless of their location, language, or income level. It serves as a **24x7 personal health companion**, reducing misinformation, panic, and medical expenses.

Future Goals:

- Integrate with government e-health platforms (eSanjeevani, Ayushman Bharat).
 - Add wearable health sensor data (heart rate, SpO₂).
 - Offline support for low-connectivity areas.
 - Expand to 10+ Indian languages.
-

Why It Matters

Manas+ stands out by combining **AI intelligence, human-like empathy, and multilingual accessibility** to bridge India's healthcare gap. It's not just an app — it's a **first-response assistant** that listens, guides, and connects people to the care they deserve.

Pitch Tagline

"Manas+ listens to your voice — and helps you care for your mind and body, anytime, anywhere."