

# LEARNATHON 4.0



## TEAM (SC) 2 - 10

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# AarogyaBot

**Delivering Intelligent Healthcare to Rural India.**

An innovative AI-powered diagnostic chatbot designed to revolutionize healthcare accessibility for the heart of our communities.

## CORE PILLARS

Accessible Design

AI-Driven Accuracy

Seamless Referrals

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# The Silent Crisis in Ruler Healthcare

Millions in rural India lack access to timely medical advice, turning treatable conditions into critical emergencies



## Delayed Diagnosis

Because there aren't enough doctors, small health problems often get worse, making treatment harder and recovery slower.



## Resource Scarcity

Ruler area have only 20% of the nation's healthcare workforce for 60% of population.



## Access Barriers

Geographical distance, lack of transportation, and language differences prevent many from every seeking care.

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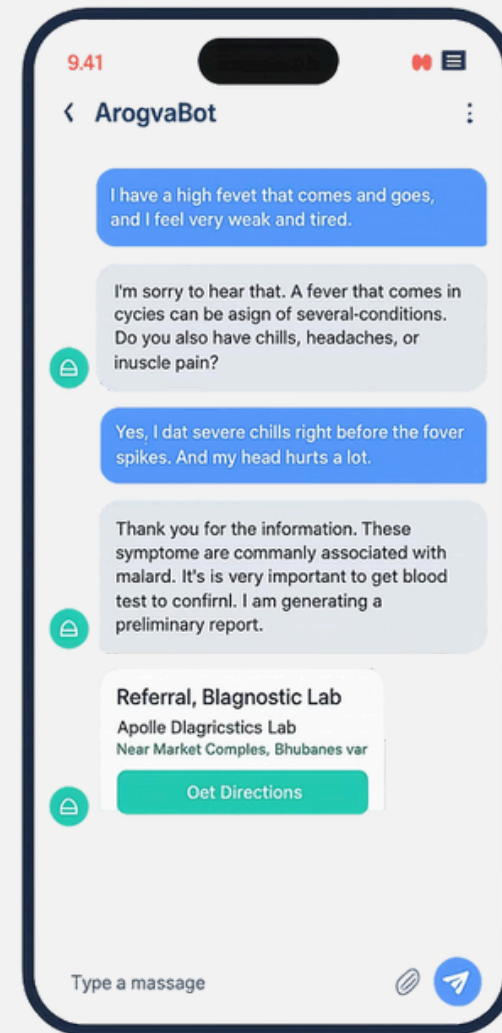


# Introducing the AI-Powered Diagnostic Chatbot

Our solution is an accessible, AI-driven chatbot platform designed to address critical healthcare disparities in rural areas. It offers preliminary health assessments and facilitates medical referrals.

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# Our Guiding Principles

Four core commitments that defines our approach to sloving rurla healthcare challenges.



## Radical Simplicity

The design is easy to use, works in many languages, and doesn't need ant technical skills, anyone can use it.



## Clinical Reliability

Smart AI helps give the right first advice and easy-to-understand health reports.



## A Direct Path to Care

Helps users easily reach the right healthcare specialists when needed.



## Universal Accessibility

Works even on basic phones and with weak or limited internet.

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# How AarogyaBot Works

A seamless AI Workflow from User to Insight



## 1. Multilingual Input

User interacts via voice or text in their native language



## 3. RAG & Search

Tavily fetches real-time data to provide context to the LLM.



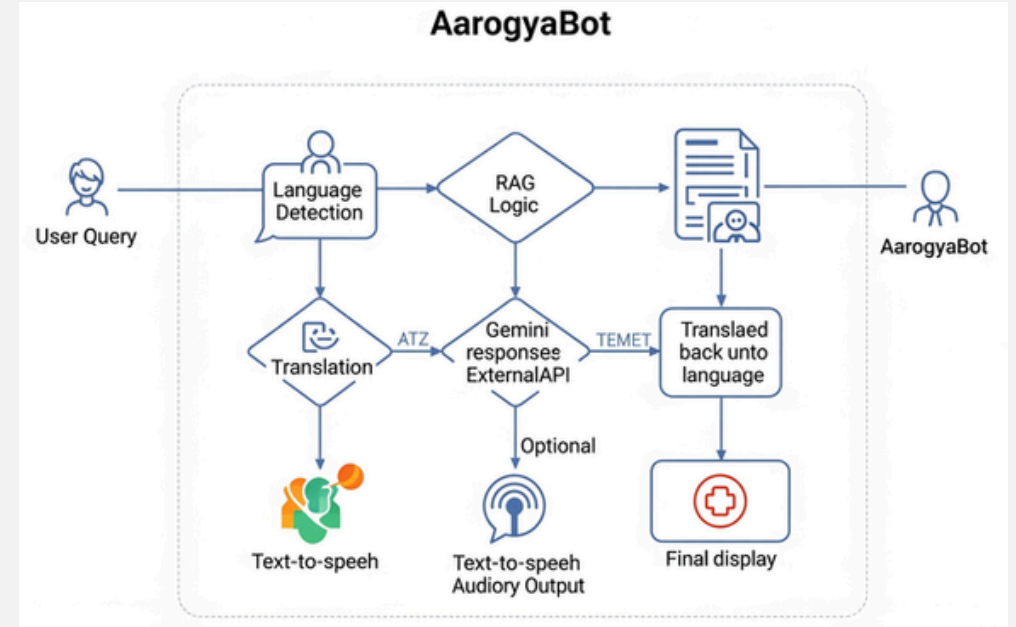
## 2. AI Orchestration

LangChain processes the query and coordinates the AI tools.



## 4. AI Response

Gemini generates a safe, empathetic, and context-aware report.



**LOW-LEVEL DIAGRAM**

# Features & Integrated AI Models

## FEATURES



AI-Based Preliminary Diagnosis



Easy to Operate (User-Friendly UI)



AI-Based Preliminary Diagnosis

## AI Models Integrated



1. Self-Trained Model

Custom-built for local health needs & offline use



2. Gemini

Multimodal AI for voice, text & image inputs



4. Tavily

Real-time web search for accurate, up-to-date info



5. Google Translate API

Language translation for regional & multilingual access

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# Transforming Rural Healthcare

Our solution is designed to deliver tangible, life-shaving outcomes by addressing the core challenges of accessibility and accuracy



**50%**

## Reduction in Misdiagnosis

By providing structured, Ai-guided symptom analysis to support xlinical decisions.



**50%**

## Reduction in Misdiagnosis

By identifying potential serious condition earlier and guiding patients to the correct care pathway.



**24/7**

## Reduction in Misdiagnosis

By breaking down the barriers of time, distance, and location for initial health constructions.

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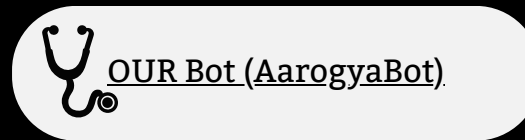
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# Thank You

**“We are committed to building a healthier future for rural communities through innovative solutions.”**



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**Presented By Team (SC)2 - 10**

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