

## SmartSehat:

# Rural Telemedicine & Health Monitoring Platform

## Team Name: MediPulseConnect

- **Problem Statement**

Limited access to quality healthcare services in rural and remote areas due to lack of medical infrastructure, specialist availability, and continuous health monitoring systems.

- **Track**

Healthcare

## Team Members

- Bhupesh Kumar
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- **Problem Focus:**

Rural Healthcare Accessibility

# SmartSehat

## Bridging Healthcare Access in Rural Areas



Rural Areas faces a critical healthcare access crisis, leaving over 900 million residents underserved. SmartSehat addresses this by providing an innovative offline-first telemedicine platform. Our solution offers AI-powered triage and regional language support, ensuring vital care even with low internet connectivity. We also facilitate crucial emergency hospital connections, making quality healthcare accessible and equitable for all. SmartSehat is revolutionizing how rural communities access medical assistance, bringing hope and health where it's needed most.

# The Healthcare Crisis in Rural Area

## Distance Barriers

Patients travel 5-10 kilometres or more to reach the nearest healthcare facility, often facing significant time and financial burdens.

## Doctor Shortages

Rural areas face severe shortages of qualified doctors, with many villages having no resident physician or only part-time medical officers.

## Connectivity

Poor internet infrastructure and unreliable mobile networks prevent use of conventional telemedicine platforms during critical moments.





# Consequences of Limited Healthcare Access

## Late Diagnosis

Elevated disease burden due to delayed consultations and lack of preventive care

## Untreated Conditions

Chronic diseases worsen without continuous monitoring and treatment continuity

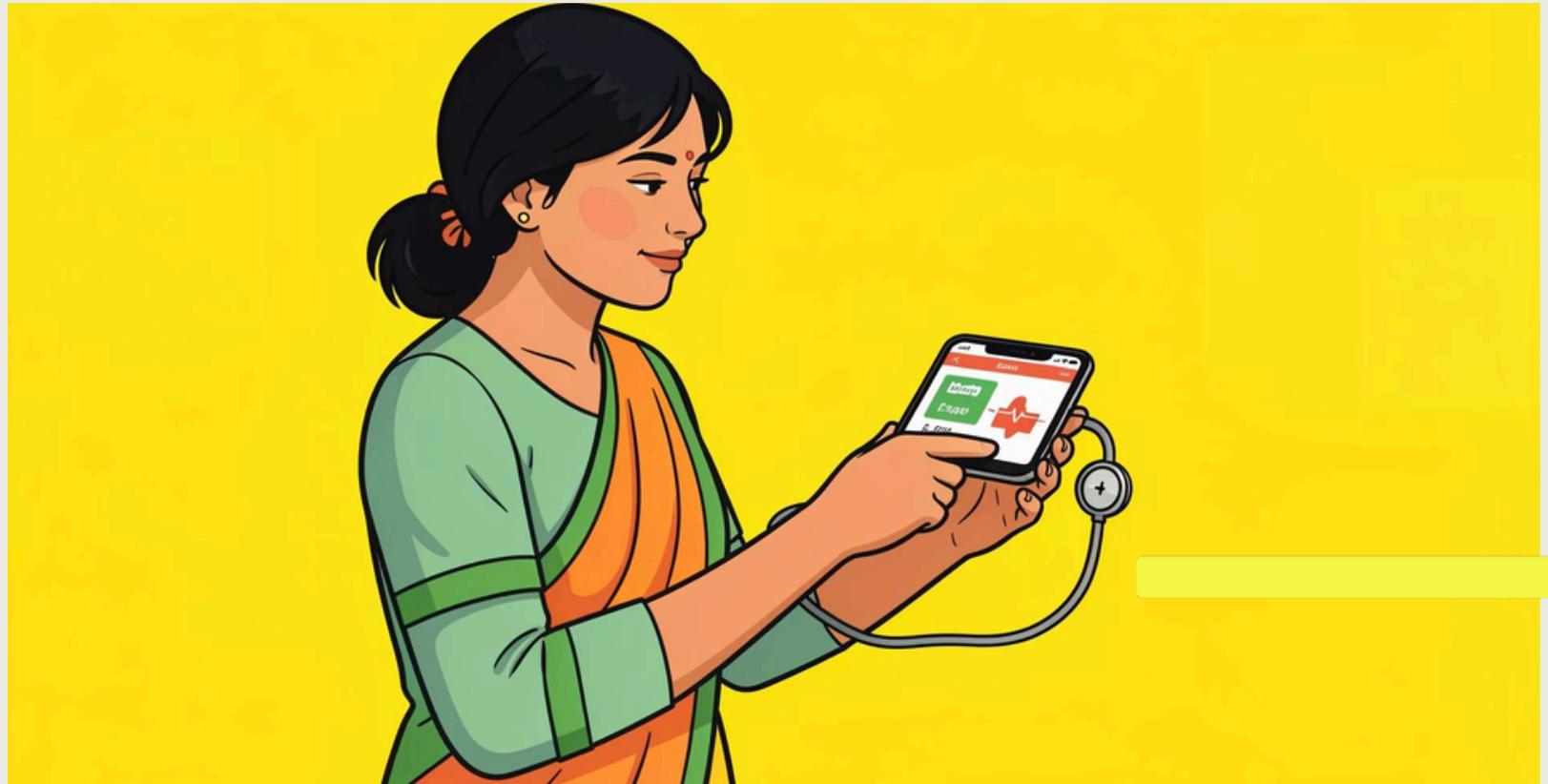
## Preventable Deaths

Higher mortality rates from treatable conditions due to healthcare gaps

## Language Barriers

Communication challenges and low digital literacy prevent effective consultations

# Introducing SmartSehat

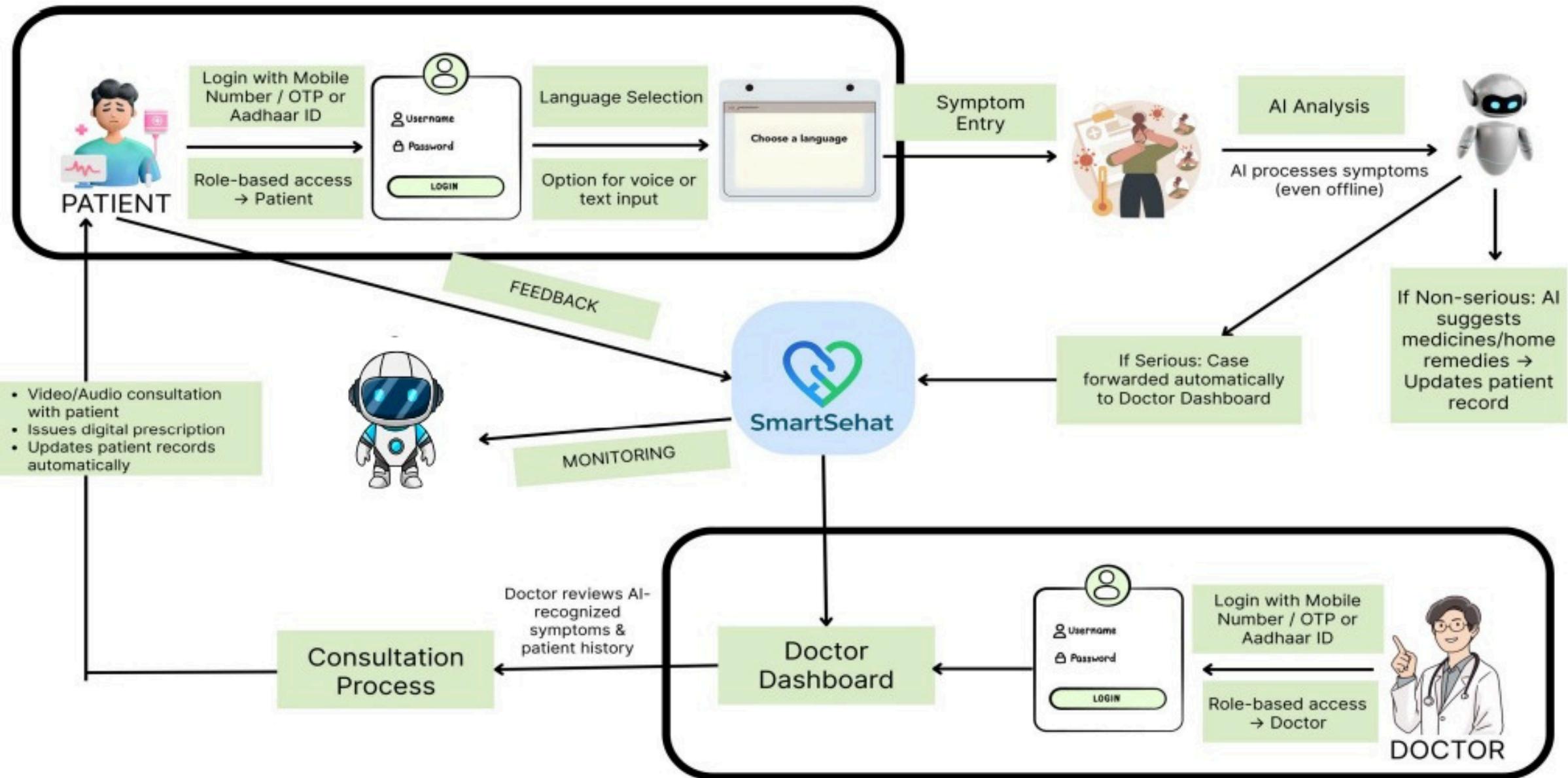


## An Autonomous, AI-Driven, Multi-Lingual Healthcare Ecosystem

A pioneering platform designed specifically for rural healthcare delivery in India, enabling consultations, health monitoring, and digital record-keeping even without stable internet connectivity.

Built for real rural conditions, not ideal scenarios

# Flow chart



# How SmartSehat Works



## Local Storage

Medical records and patient data stored securely on the device offline, accessible without internet connection.



## Smart Synchronisation

Data automatically syncs to cloud when internet becomes available, maintaining data integrity and continuity.



## Flexible Consultations

Audio, video, or chat consultations adapted to available bandwidth and patient preference.



## Digital Records

Complete medical history maintained digitally, aligned with Ayushman Bharat Digital Mission standards.

# Core Features That Make It Work



## Voice-Assisted Interface

Simple voice commands and audio prompts make the platform accessible for users with low digital literacy and varying education levels.



## Multi-Language Support

Interface and consultations available in multiple regional languages, including Hindi, Bengali, Tamil, Telugu, and others.



## Health Monitoring

Track vital signs, medications, appointments, and treatment progress with reminders designed for elderly and chronic care patients.



## Secure & Compliant

Encrypted data storage and transmission compliant with India's digital health standards and privacy regulations.



## Frontline Worker Tools

Special features for ASHA workers and village health volunteers to coordinate care and track multiple patients efficiently.



## Low-Bandwidth Optimised

Visuals and data compressed to work on 2G networks, ensuring accessibility even in connectivity-challenged areas.

# AI-Powered Care & Emergency Response

SmartSehat's intelligent triage system guides patients through the most appropriate care pathway, preventing unnecessary travel and ensuring timely intervention. Patients can describe symptoms naturally in their regional language, ensuring clear communication.



## AI Health Assistant

Analyzes symptoms, provides home remedies and suitable medicines for minor ailments, empowering self-care for common issues.



## Smart Escalation

If symptoms indicate an emergency, the system automatically connects to nearby hospitals, streamlining critical care access.



## Doctor Consultation

Seamless escalation to qualified doctors for serious cases, ensuring expert medical advice when it's most needed.

# Unique Selling Proposition (USP)



**AI-Governed Healthcare System** Our platform replaces traditional admin control with an **AI Agent** that monitors patient activity, doctor interactions, appointments, and system workflows — making the application self-operating and intelligent.



**Multi-Regional Language Support** Supports multiple regional languages to ensure inclusive, accessible healthcare for diverse and rural populations.



# Our Target Users



## Elderly Patients

Aged 60+ managing chronic conditions and requiring regular monitoring



## Rural Families

Households seeking affordable healthcare without travel burdens



## Women Farmers

Self-employed in agriculture with limited healthcare access



## Frontline Health Workers

ASHA workers, nurses, and paramedics serving rural communities