



# KEC HACKATHON 2025



- Problem Statement ID – PSB2
- Title - Telemedicine Integration
- Domain –WEB DEVELOPMENT
- Team Name – CODE BREAKERS
- Team Lead Name – GOKULRAMM S
- College – KGISL INSTITUTE OF TECHNOLOGY

## TEAM MEMBERS

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# TeleMedX – AI-Powered Smart Telemedicine Platform

## Proposed Solution :

A New level telemedicine platform that provide **Real-Time Video Consultation,AI-Powered Symptom Analysis,Seamless Pharmacy Integration** for instant medicine delivery and Emergency Alert System

## Key Features:

- Live Video & Audio Consultations
- Smart Prescription & Pharmacy Integration
- AI-Powered Symptom Analysis
- Emergency Visual Guidance
- EHR (Electronic Health Records)



## TECHNICAL APPROACH

### Technologies Used:

- **Frontend:** React.js, Tailwind CSS
- **Backend:** Python – Flask (Framework)
- **Database:** MySQL(EHR Storage)
- **AI/ML:** TensorFlow, OpenAI API (for chatbot & symptom analysis)
- **Video Consultation:** WebRTC, Twilio API

### Implementation Methodology:

AI Symptom Checker & Consultation Booking  
Doctor Consultation (Video Call + Smart Prescription)  
Medicine Ordering & Home Delivery Tracking  
Emergency Assistance & Visual Guides  
Patients Report Monitoring For Timely Recommendation



## FEASIBILITY AND VIABILITY

### **Challenges & Solutions:**

- Internet Connectivity in Rural Areas:  
-**Low-bandwidth video calls** + offline consultation modes (chat-based AI).
- Medical Data Privacy:  
-**Blockchain-based encrypted storage** ensuring HIPAA compliance.
- Doctor Availability Issues:  
-AI-assisted **scheduling optimization** for reduced waiting time.

# IMPACT AND BENEFITS

- **Immediate doctor access** from anywhere, reducing unnecessary hospital visits.
- **Faster emergency response** with AI-powered **first-aid assistance**.
- **Automated medicine delivery** eliminates pharmacy visits.
- **AI-driven symptom checker** helps in **early disease detection**.
- **Visual Hospital** helps the Old Age People That they No Need to Travel Lot

## RESEARCH AND REFERENCE

- AI in Telemedicine:  
Global Perspective on AI in Telemedicine-  
<https://pubmed.ncbi.nlm.nih.gov/38436235>  
<https://PMC6697552>
- HER:  
<https://www.infosysbp.com/blogs/healthcare/healthcare-data-privacy-and-security-can-blockchain-come-to-the-rescue.html>
- Emergency Visual Guidance and First-Aid AI Assistant:  
<https://PMC9118431>