

HACKXTREME'26



CUBEAI SOLUTIONS Tech Pvt Ltd

Company Problem Statement

The Omni-Care AI Hospital Ecosystem

Context: Modern healthcare systems are often centralized, expensive, and linguistically restrictive. Patients in multilingual regions frequently struggle to describe symptoms accurately in a second language, while hospital staff are overwhelmed by administrative tasks and routine triage. This "communication gap" leads to misdiagnosis, patient anxiety, and inefficient resource allocation.

The Challenge: Develop a **Multilingual AI Virtual Doctor's Assistant** that serves as the digital front door to a hospital ecosystem. The solution must provide a seamless experience through both **Voice** and **Chat** interfaces, allowing patients to communicate in their native tongue.

Key Objectives for Participants:

- **Intelligent Triage:** Build a diagnostic engine that can understand symptoms in multiple languages and determine the urgency of care (Emergency, Urgent, or Routine).
- **Multimodal Interaction:** Implement a natural-sounding Voice AI for elderly or low-literacy patients, alongside a structured Chat interface for quick data entry.
- **Electronic Health Record (EHR) Integration:** The AI should automatically summarize the patient interaction into a clinical note for the human doctor to review, saving hours of paperwork.
- **Cultural Nuance:** Ensure the AI understands regional dialects and cultural descriptions of pain or illness.