

International Innovation Hackathon

- Theme- Healthcare (# IIC09)
- Idea Title- Vaidya Chatbot
- Team Name- Code Catalyst



Vaidya

Vaidya is an AI-powered chatbot designed to assist with medical inquiries, provide guidance on symptoms, and give general healthcare advice. Accessible 24/7, it aims to bridge the healthcare gap by offering initial support to users seeking medical information.

NOVELTY:

The combination of symptom analysis, disease prediction, and live consultations creates a comprehensive health ecosystem. It merges AI-driven insights with human expertise, giving users the best of both worlds.

EASE OF USE:

With its intuitive interface, conversational AI, and all-in-one platform approach, Vaidya ensures accessibility and convenience for diverse user groups. Its' simple UI further enhances usability, making healthcare guidance approachable and user-friendly.

FEASIBILITY AND SCALABILITY

Feasibility Analysis:

Vaidya leverages scalable AI and telemedicine to provide affordable healthcare access. Increasing smartphone use and internet reach in remote areas make this solution practical. India's massive population represents a significant market for e-Healthcare services, offering potential for a huge impact.

•Scalability:

According to ASER 2021, 67.6% of Indian households have smartphones which can help our product/service to reach every area. Increasing smartphone use and internet reach in remote areas make this solution practical and scalable.

Comparison with Existing Platforms:

Many apps like Ada Health, Babylon, and Practo offer symptom checkers and teleconsultations. However, they often lack predictive modeling or the ability to guide users seamlessly across different stages of healthcare (from AI assessment to live doctor interaction).

IMPACT AND BENIFITS

Impact on the Target Audience:

Our solution aims to enhance healthcare access and quality for underserved populations, leading to timely diagnoses and improved health outcomes. By integrating predictive models, we can identify at-risk individuals early, enabling proactive interventions. Ultimately, this approach fosters healthier communities and reduces healthcare disparities.

Benefits of the solution:

Many Indians forgo medical attention due to high costs. Vaidya provides free or low-cost symptom assessments and disease prediction, significantly reducing the financial burden of initial consultations. Live video consultations eliminate long travel and wait times in hospitals.

TECHNICAL APPROACH

Technologies Used:

- Vaidya AI Chatbot: Custom Model, Streamlit, Pandas
- General Health prediction: Numpy, Pandas, Matplotlib
- Eye Disease prediction: Kaggle, OpenCV
- Heart Disease prediction: Pandas, Numpy, Sckit-learn
- Video Consultations: Jitsi API
- Coach Vaidya: Open CV, Mediapipe
- Pharmacy Locator: Open Maps API