

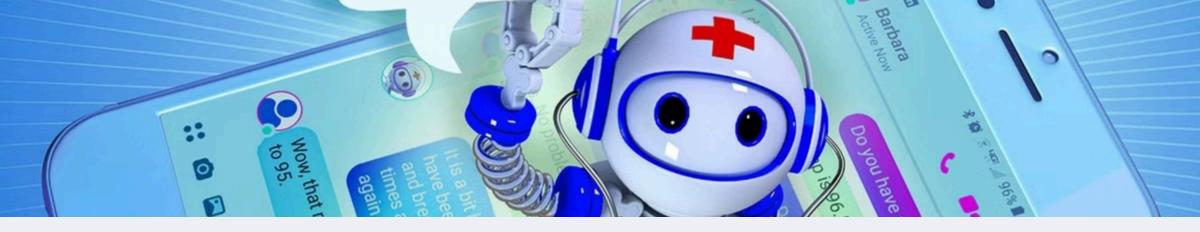
Problem statement:

Lack of accessible, reliable health information leads to misinformation and delayed care

Solution:

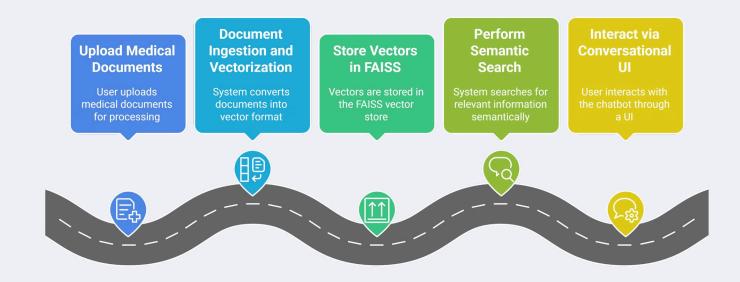


Revolutionizing healthcare with AI-powered symptom analysis and health advice. Empowering users with accessible, personalized medical information. Bridging the gap between patients and healthcare knowledge.



Query Processing Flow

CureX Medical Chatbot Functionality



Our Solution: CureX - The Al-Powered Medical Chatbot

24/7 Availability

Get access

 anytime,
 anywhere, on
 multiple devices.

Personalized Recommendations

Receive health

 insights tailored
 to your individual

 needs.

Secure Platform

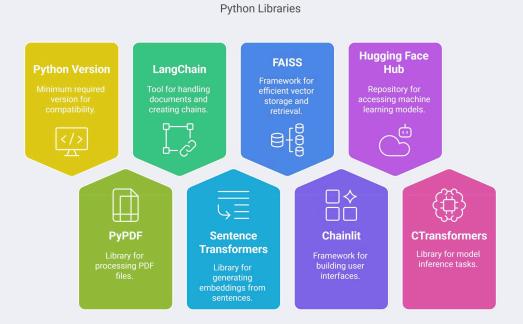
User data confidentiality is ensured.

Verified Medical Knowledge

 Access a comprehensive and reliable medical database.

CureX empowers you with accessible, personalized medical information.

* Tech Stack: Building a Robust and Reliable Platform



pypdf

Efficiently processing and extracting data from medical documents.

FAISS

Enabling fast and efficient search over large medical datasets.

huggingface_hub

Accessing cutting-edge language models for improved accuracy.

Python

Language used to build this app

chainlit

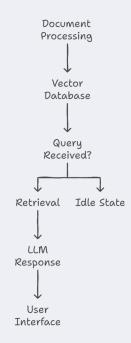
Streamlining the development and deployment of the chatbot interface.

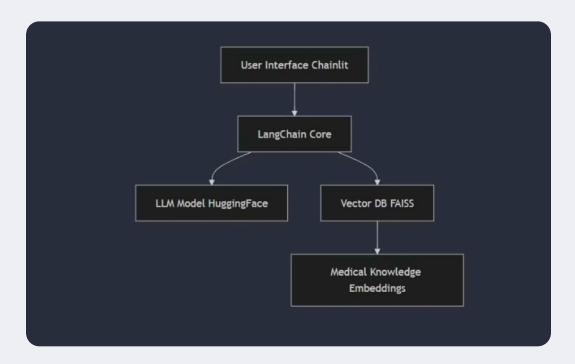
langchain_community

Leveraging the power of open-source tools and resources. $\,$

Workflow Diagrams

Document Processing and Response Generation







System Architecture Diagram

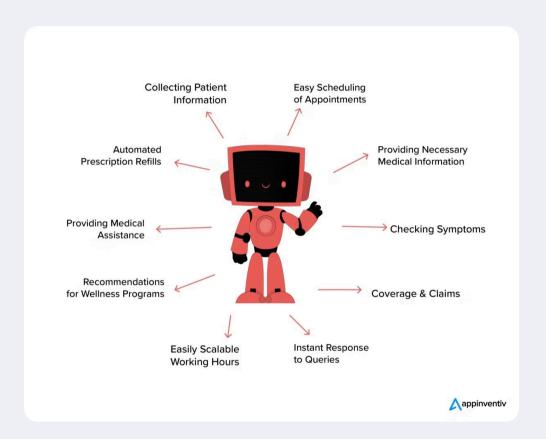
Data Ingestion Workflow

How It Works: Al-Driven Symptom Analysis

- Natural Language Processing (NLP) algorithms analyze user input.
- Machine learning (ML) models identify potential conditions based on symptom clusters.

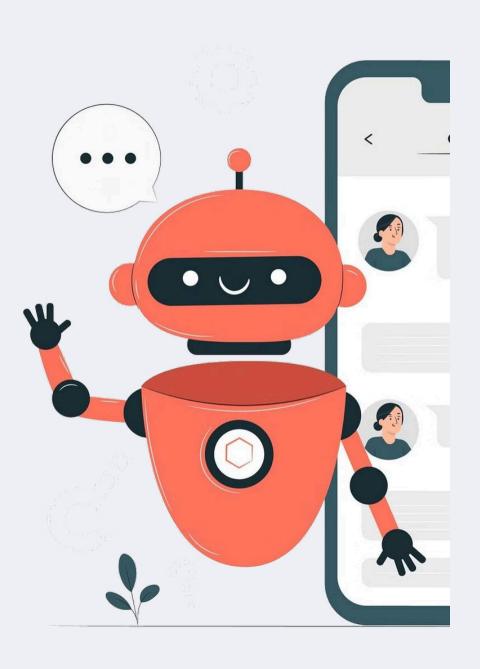
 Continuous learning and improvement through feedback and data analysis.

 Trained on a 7b model. Achieves 92% accuracy in symptom-disease matching in internal testing.



Key Features: Personalized Health Insights





CureX in Action: Demo and Use Cases

Live demonstration of the chatbot's capabilities.

Use case 1: Diagnosing the flu based on symptoms like fever, cough, and body aches.

Use case 2: Providing information and tips for managing diabetes through lifestyle changes.

Use case 3: Assessing mental health conditions such as anxiety or depression and offering self-help resources.

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Future Roadmap: Expanding Capabilities, Enhancing User Experience

Integration with electronic health records (EHRs) for seamless data exchange.

Multilingual support to reach a global audience.

Development of specialized chatbots for specific conditions (e.g., mental health, women's health).

Al-powered diagnosis and triage capabilities for emergency situations.

Predictive analytics to identify individuals at risk for developing certain diseases.

Voice-activated interface for hands-free access.



Conclusion: The Future of Personalized Healthcare is Here

CureX represents a transformative step towards a future where accessible, personalized, and intelligent healthcare is within reach for everyone. By bridging the gap between patients and medical knowledge, we can empower individuals to take control of their health and well-being. We believe that this technology has the potential to revolutionize how we interact with healthcare, leading to a healthier and more informed society.

By- Team *Blasters*

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always ready to collabrate!