

HealthCare Assistant: Emotion-Guided AI Chatbot

Streamlit powered AI assistant that helps users check symptoms, understand prescriptions, and improve health literacy — with empathetic, emotionally-aware responses.

Project Summary

This project is a virtual healthcare assistant designed to:

- **Check symptoms** and suggest possible causes (not diagnoses)
- **Explain prescriptions:** dosages, side effects, and interactions
- **Tutor health literacy** in simple, non-technical language

It combines retrieval-augmented generation (RAG), emotional intelligence, and local LLMs for safe, private, and informative health support.

Technologies Used

Tool	Purpose
FastAPI	Backend API for chatbot interaction
Streamlit	Frontend interface (chat UI)
Ollama	Local LLaMA-3 model inference
FAISS	Context retrieval using BioBERT
Transformers	Emotion detection and NLP tasks
MedQuAD	Dataset for context and answers
BLEU + ROUGE	Response evaluation metrics

Submission Info

- Datasets: MedQuAD from Hugging Face
- Models: LLaMA 3 via [Ollama](#)
- Evaluation: BLEU + ROUGE script included