

Health Assistant Chatbot - Terminal Version

Project Overview

This is a terminal-based health chatbot that answers user queries in English and Tamil. It uses a simple keyword-based intent classification system to detect whether the query is related to nutrition, medicine, or an emergency.

Objectives

- Answer health-related queries through the terminal
- Support both English and Tamil inputs
- Classify user input into Nutrition, Medicine, or Emergency

Tech Stack

Language: Python

Interface: Terminal (CLI)

IDE: VS Code

Classification: Rule-based (keyword matching)

Sample Q&A with GPT-style Responses

Question	Intent	Response
What to eat when hemoglobin is low?	Nutrition	Eat iron-rich foods like spinach, beetroot, dry fruits.
Is paracetamol safe during pregnancy?	Medicine	Paracetamol is generally safe, but consult a doctor.
What to do during a heart attack?	Emergency	This is serious. Go to the hospital immediately.
ஹீமோகுளபின் குறைவாக இருக்கும் போது என்ன சாப்பிடுவது?	Nutrition	ஹீமோகுளபினை அதிகப்படுத்தும் உணவுகளை சாப்பிடுங்கள். இரும்பு, இரும்பு, காய்கறிகள், பழங்கள்.

□□□□□□□□□□
□□□□□□□□□□
□□□□□□□□□□?

Medicine

□□□□□□□□□□
□□□□□□□□
□□□□□□□□.

□□□□□□□□
□□□□□□□□□□
□□□□□□□□□□?

Emergency

□□□□□□□□
□□□□□□□□□□
□□□□□□□□□□.

Intent Classification Logic

The chatbot uses keyword matching to classify the user's question. Keywords are mapped to three categories: nutrition, medicine, and emergency. If a keyword from any category is found in the user's input, that intent is selected.

Project Structure

HealthAssistantCLI/

```
├── chatbot.py      # Main chatbot runner
├── intent_classifier.py # Classification logic
└── HealthChatbot_Report.docx # This report
```

How to Run (in VS Code Terminal)

1. Open VS Code.
2. Navigate to the project folder in the terminal.
3. Run the chatbot with:
python chatbot.py

Future Improvements

- Add voice input/output
- Integrate with machine learning models
- Store chat history in a file or database