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.
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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/

- health_assistant_chatbot.py   # Main chatbot runner
- intent_classifier.py   # Classification logic
- health_qa_example.md   #markdown file of the question-answer
- 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 health_assistant_chatbot.py

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