



Llama3 Hackathon Team: ChingChong

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Introduction



The LATOM Chatbot is a RAG model built upon LlamaIndex and Together AI to recommend quality Over-The-Counter medicine based on your symptoms and needs from a dataset provided by the Food and Drugs Administration.

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Objectives

Chatbot

LATOM needed to work as a chatbot so that people could provide their symptoms and ask queries about the Medicine recommended. This meant that we must also provide a comprehensive GUI along with Chat History.

RAG

As the medical field is extremely dynamic and subject to change, we needed to implement a RAG model so that LATOM wouldn't need to be updated everytime the dataset changes and gives medically accurate information.

Steps Involved



1.

Preprocessing of
FDA dataset to
contain only OTC
medicine

2.

Loading JSON
data and setting
up chat engine
with Chainlit

3.

Setting up the
LLM and
initializing Chat
message history

4.


Using user input,
chat history and
prompt template
given to chatbot
to generate output





Results

LATOM can provide accurate Over-the-counter medications for symptoms. RAG was implemented allowing for a dynamic knowledge base. By using Chainlit, LATOM can also pickup context from previous messages in the conversation.



**Thank
you**

