

Building a chatbot system for consulting and explaining medical test results using a large language model combined with retrieval-augmented generation (RAG).

Nguyen Duc Thien

Abstract: In the context of increasing access to non-professional medical information, this topic focuses on building a chatbot system to effectively advise and explain medical test results. The main objective is to develop a system based on Large Language Models (LLM) and Retrieval-Augmented Generation (RAG), aiming to provide detailed and understandable medical information for non-expert users. This research process includes data collection, training the LLM and RAG models, and testing the system on test datasets. The expected result is a chatbot system capable of explaining medical test results accurately and transparently, contributing to the development of decision-support technology in healthcare.

Keywords: chatbot, large language model (LLM), retrieval-augmented generation (RAG), medical consultation, test result explanation