

ABSTRACT

The development of information in today's digital era is very rapid. However, as data continues to grow, finding information is a time-consuming problem. With the existence of AI (Artificial Intelligence), these problems can be easily overcome. Based on these problems, this research aims to develop an AI chatbot system that is able to analyse text documents effectively as a technology that can search for information automatically. The background of this research is the client's request to develop a system that can analyse information from various source documents, overcoming the complex and time-consuming problem of managing or searching for information. The main objective of developing this system is to provide a tool that can be used to collect important information from text documents into an index that will help users as a fairly efficient informant. The study used LlamaIndex framework, Qdrant vector store, and large language model from Together AI. The result of this research is an AI backend system to analyse or search for information in a document with chatbot. Response accuracy in providing highly relevant answers based on information from the document. It is hoped that the results of this research can increase the effectiveness of information search in today's digital era.

Keywords: Artificial Intelligence, Llama Index, Qdrant, Together AI, chatbot AI, Vector Store, Large Language Model (LLM)