

Artificial Intelligence (AI) is a branch of computer science that aims to create machines capable of performing tasks that typically require human intelligence. These tasks include learning, reasoning, problem-solving, perception, and natural language understanding.

One of the most significant advancements in AI is the development of Large Language Models (LLMs). LLMs are trained on massive datasets and can generate human-like text, translate languages, and answer questions. They work by predicting the next word in a sequence, based on the words that came before.

Retrieval-Augmented Generation (RAG) is a method that enhances the capabilities of LLMs by integrating them with an external knowledge base. When given a query, the system retrieves relevant information from the knowledge base and uses it to produce more accurate and contextually relevant answers.

This PDF is a simple pure text file for testing purposes. It contains no images, tables, or complex formatting.