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Definitions

# 1. Lang-Chain

LangChain is a framework that helps developers build applications using large language models (LLMs). It simplifies integrating LLMs with tools like databases, APIs, and user inputs to build chatbots, question-answering systems, and more.

# 2. RAG (Retrieval-Augmented Generation)

RAG is a method that combines document retrieval and text generation. It retrieves relevant information from a database or document set, then uses a language model to generate an answer using that information.

# 3. LLMs (Large Language Models)

LLMs are AI models trained on huge amounts of text data. They can understand and generate human-like text, and are used in chatbots, translation tools, and writing assistants.

# 4. FAISS

FAISS (Facebook AI Similarity Search) is a library developed by Facebook to search for similar vectors quickly. It's often used to find similar text embeddings in applications like search engines or recommendation systems.

# 5. Vector

A vector in AI represents data (like words or images) in a numerical form. This allows computers to compare and process information mathematically.

# 6. VectorDB

A Vector Database stores and manages vectors. It allows for efficient similarity search, meaning it can quickly find vectors that are close to a given vector.

# 7. Generative AI

Generative AI is a type of artificial intelligence that creates new content, such as text, images, music, or videos. It learns patterns from existing data and generates new data based on that learning.

# 8. GANs (Generative Adversarial Networks)

GANs are a type of generative AI model that involves two networks – a generator and a discriminator – working against each other. The generator creates new data while the discriminator tries to tell if it's real or fake, improving the generator over time.