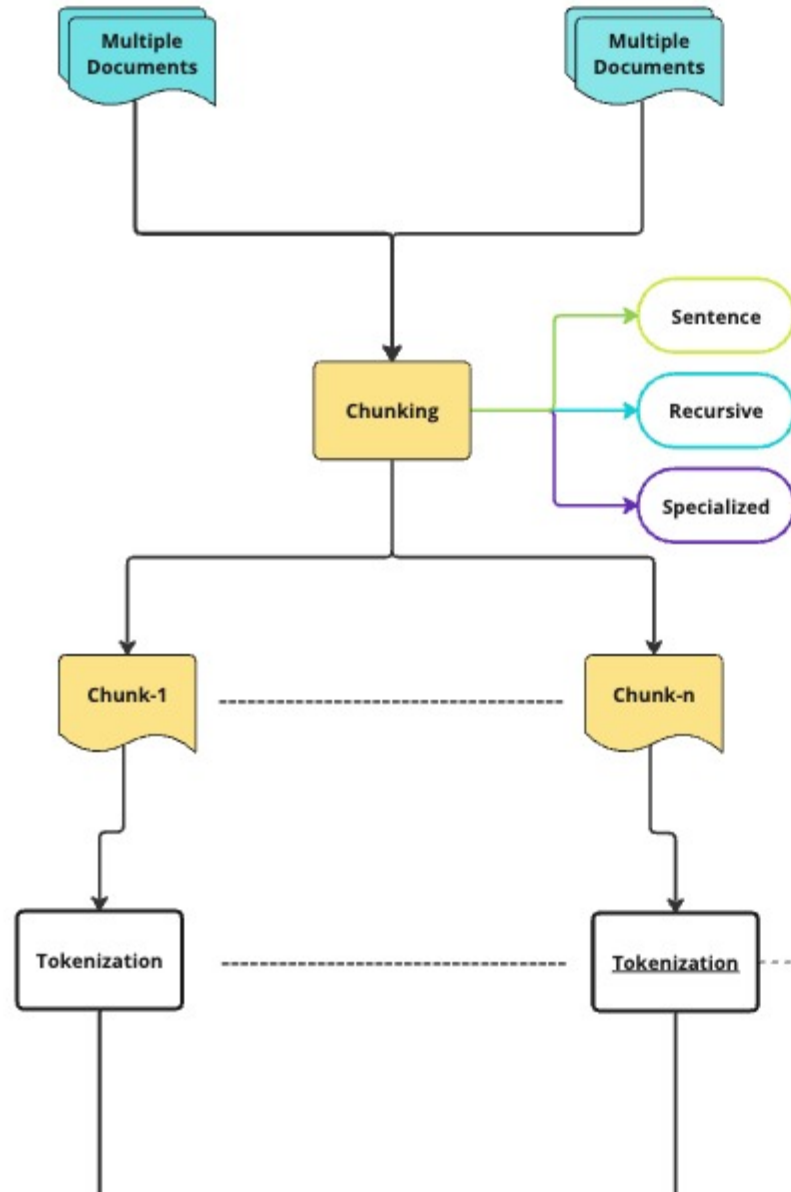


Stage 1 : Data Preparation



Choosing Chunk Size

- LLM Context window:
 - Limit on how much data you can input to an LLM
 - Top-K Retrieved Chunks
- High context length = quadratic increase in time & memory
 - Due to transformer model's self attention mechanism

The diagram shows a central box labeled 'LLM Context Window' with arrows pointing to various components: 'Prompt', 'System', 'User', 'Assistant', 'Tools', 'Plugins', 'Memory', and 'History'.

KDB.AI
Chunking Best Practices for RAG Applications
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LLMs + TEXT CHUNING
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Transformers
ECCV 2020

huggingface.co

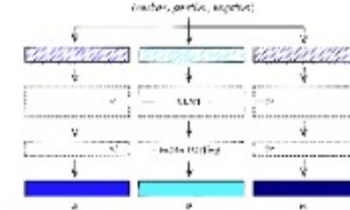
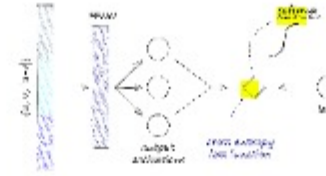
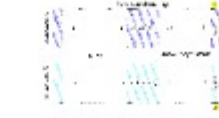
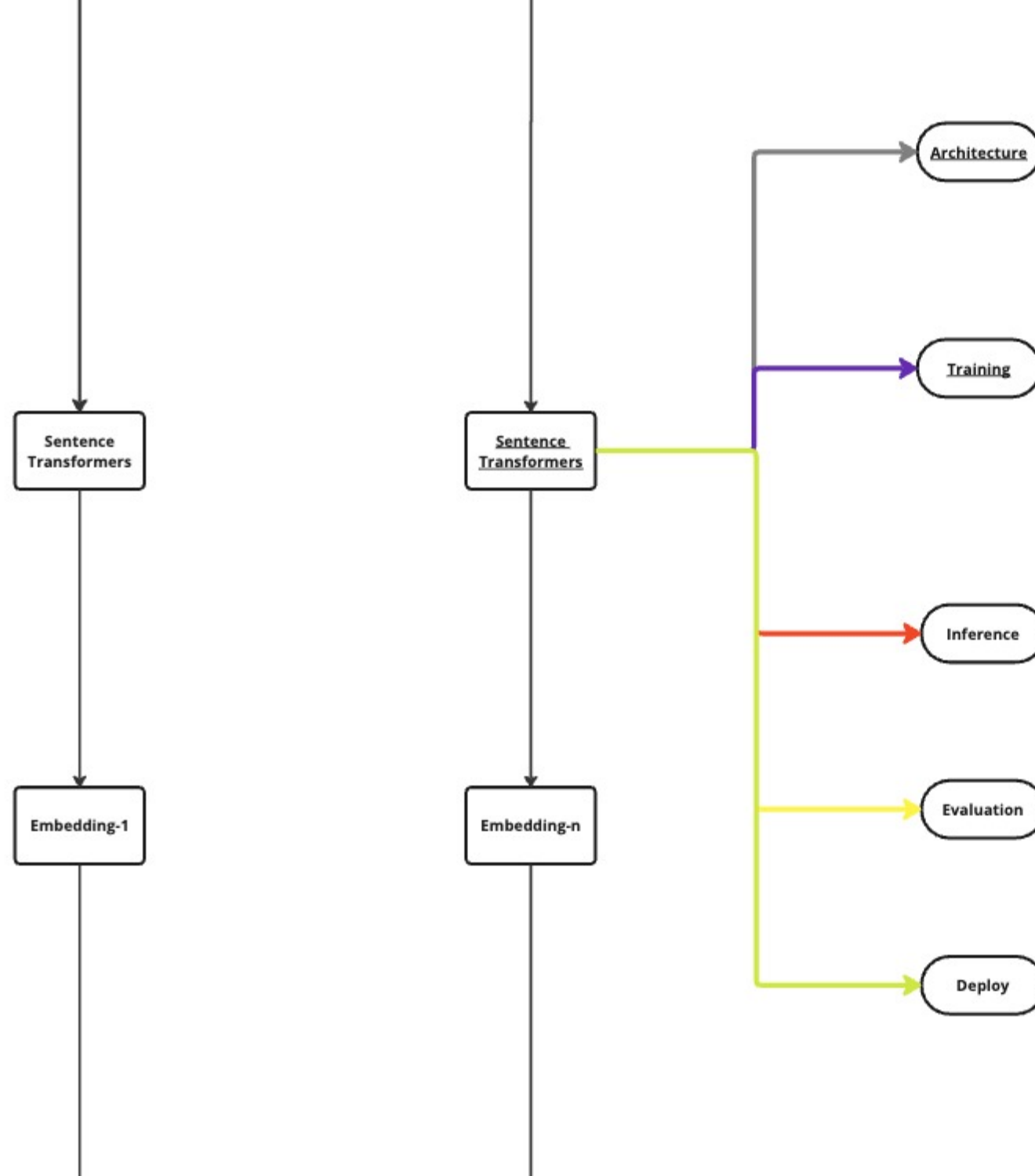
Summary of the tokenizers

We're on a journey to advance and democratize artificial intelligence through open source and open science.

Building RAG-based LLM Applications for Production

In this guide, we will learn how to develop and productionize a retrieval augmented generation (RAG) based LLM application, with a focus on scale and evaluation.

Stage 2 : Embedding

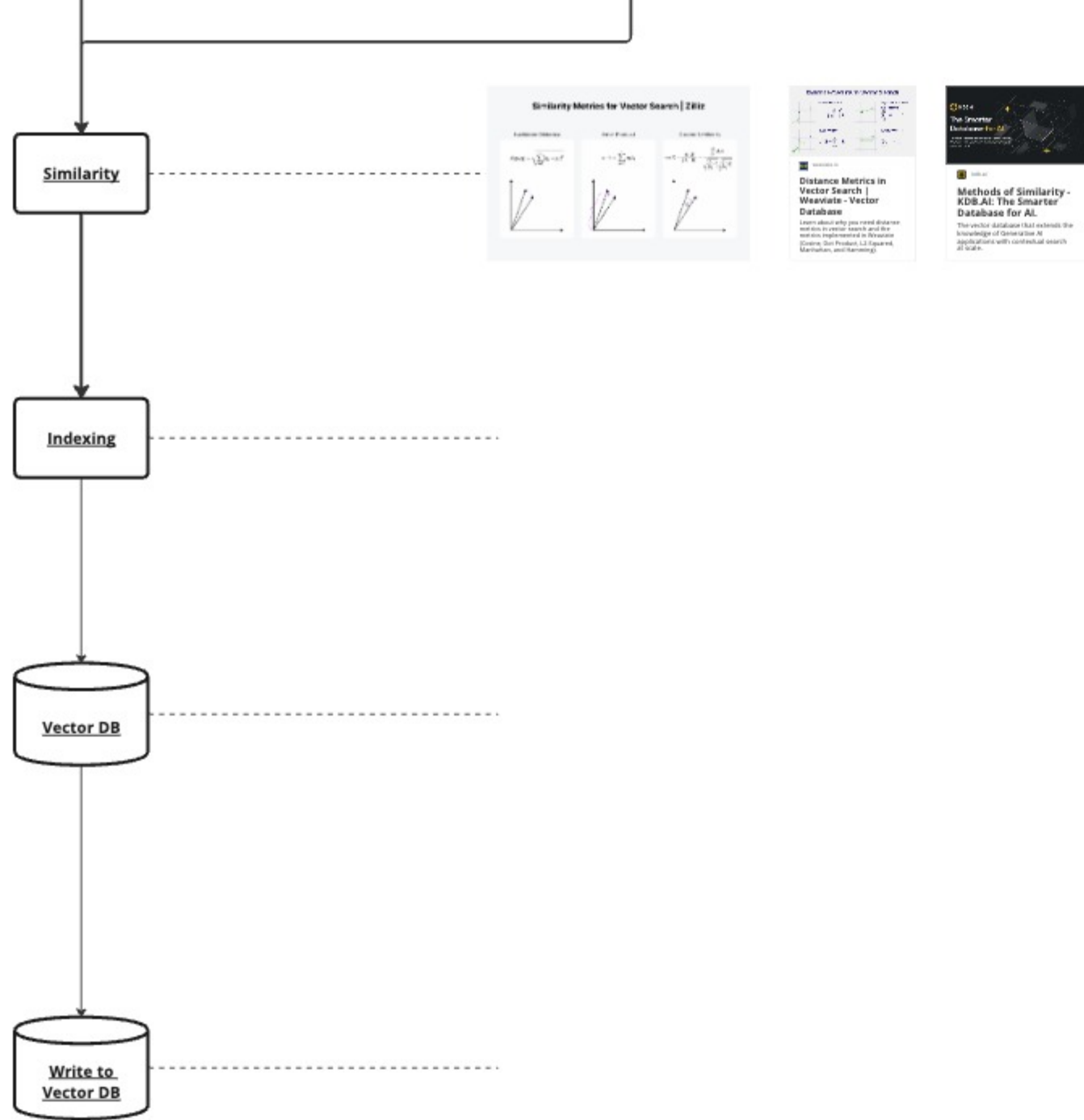


Pretrained Models - Sentence-Transformers documentation

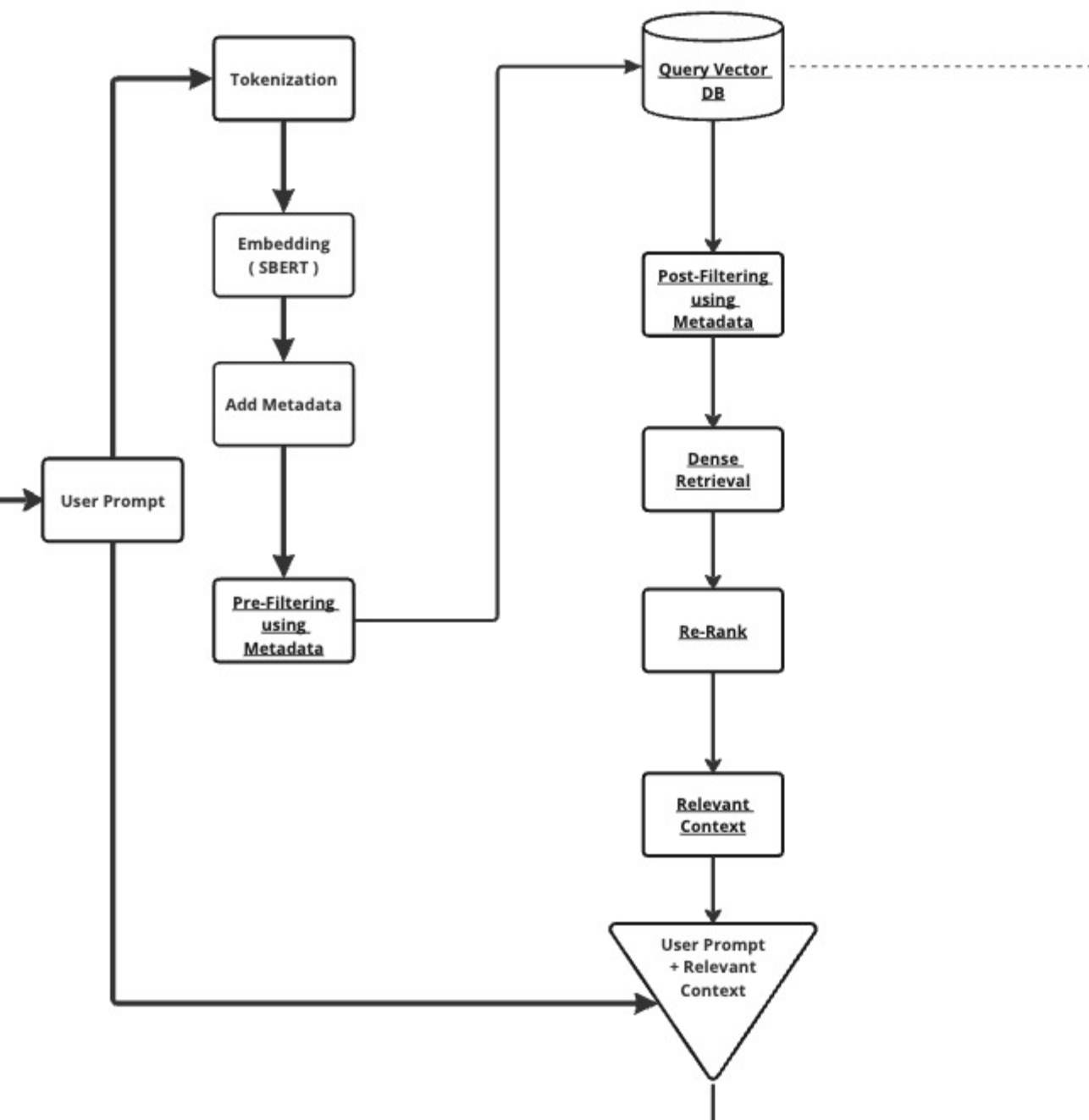
We provide various pre-trained models. Using these models is easy: All models are hosted on the Huggingface Model Hub. The following table provides an overview of (selected) models. They have been extensively evaluated for their quality to embed sentences...



Stage 3 : Add / Update Record in Vector DB



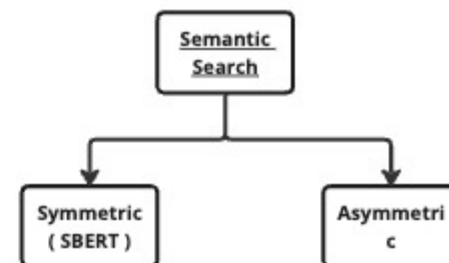
Stage 4 : Query Processing + Semantic Search



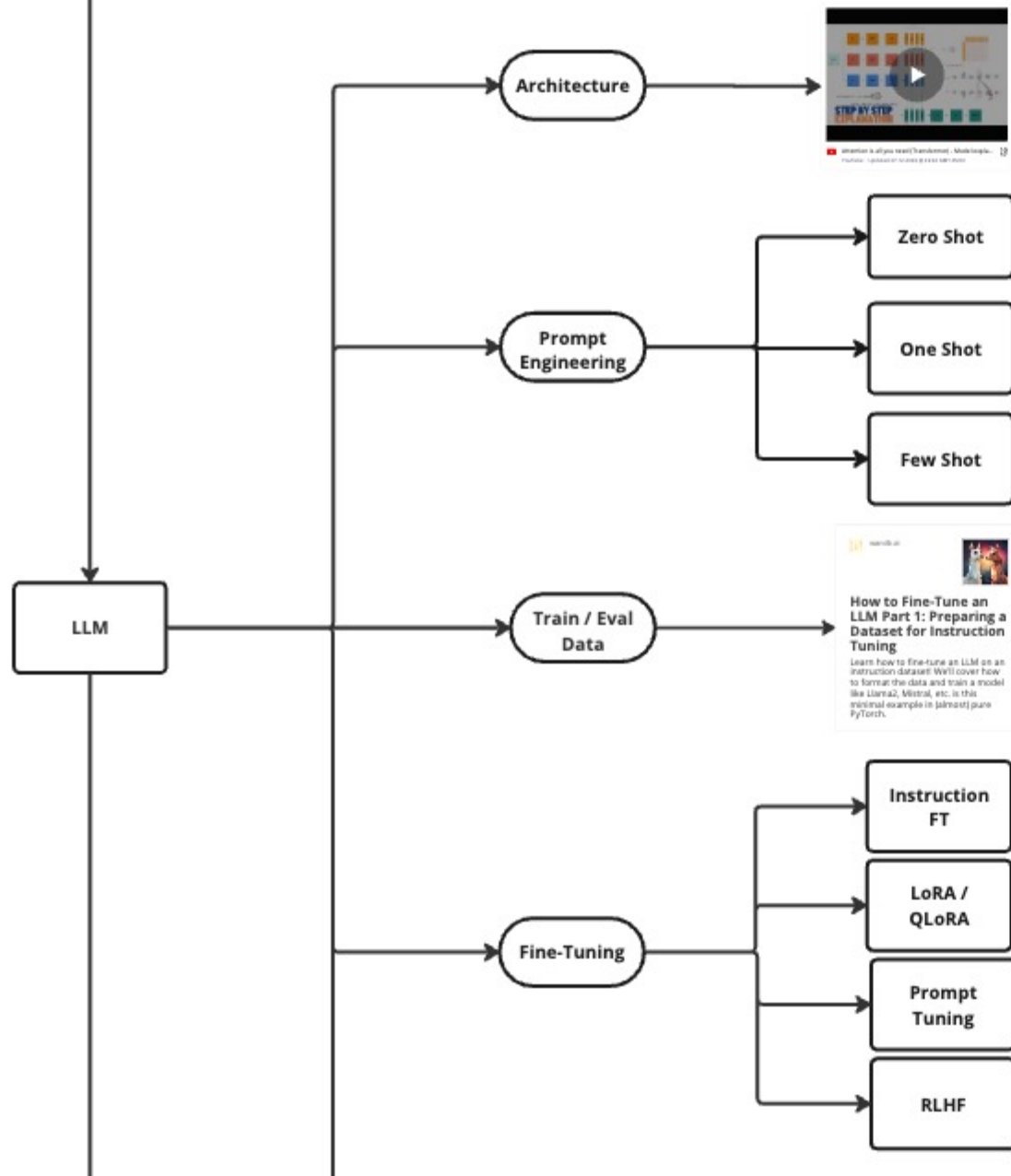
 www.sbert.net

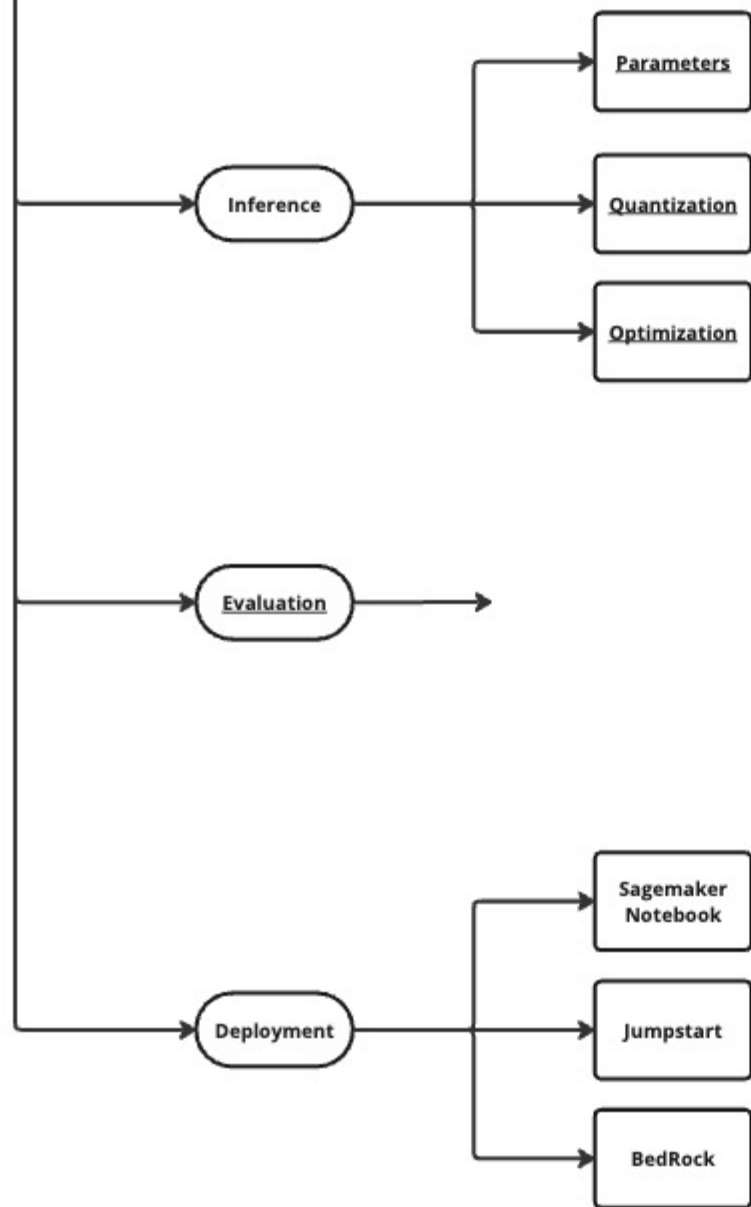
Semantic Search - Sentence-Transformers documentation

Semantic search seeks to improve search accuracy by understanding the content of the search query. In contrast to traditional search engines which only find documents based on lexical matches, semantic search can also find synonyms. The idea behind sema...



Stage 5: Generation LLM





Stage 5: Generation LLM

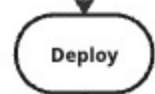
Stage 6: Conversation Summary



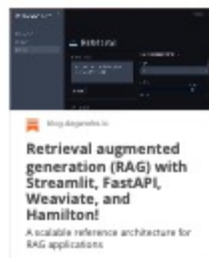
Stage 7: Evaluation



Stage 8 : Deployment



Stage 10: Front-End



UI