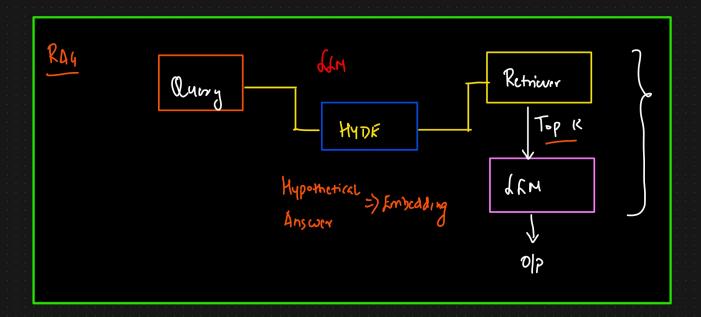


- Hypothetical Document Embeddings (HyDE)
- What is HyDe?

HyDE (Hypothetical Document Embeddings) is a retrieval technique where, instead of embedding the user's query directly, you first generate a hypothetical answer (document) to the query using an LLM — and then embed that hypothetical document to search your vector store.

- HyDE bridges the gap between user intent and relevant content, especially when:
- 1. Queries are short
- 2. Language mismatch between query and documents
- 3. You want to retrieve based on answer content, not question words



Why Use HyDE? Problem How HyDE Helps User query and document use different words Embeds answer-style content instead of question Query is too vague LLM-generated answer gives richer semantics Better grounding needed Embeds what the answer might look like Zero-shot retrieval Works well even without prior training

Benefits of HyDE	
Feature	Why It Helps
Semantic intent modeling	Better than literal keyword matching
LLM-aware retrieval	Query is expanded into more context
Generalization	Works well even if document phrasing differs from question
Plug-and-play	No need for retraining; works with OpenAI, Cohere, Hugging Face