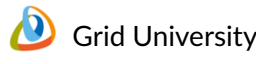


100% COMPLETE

- RAG basics
- Practice 1: Foundational Text-Based RAG System
- RAG evaluation
- Practice 2: RAG Pipeline Evaluation
- RAG Advanced approaches
- Practice 3: Practice: Hybrid Search + Reranking
- Practice 4: Advanced RAG approaches
- Multimodal RAG
- Practice 5: Multimodal RAG (Phase 5.1 and 5.2)
- Practice 6: Multimodal RAG with CoPali-like approach

Practice 3: Practice: Hybrid Search + Reranking



Phase 3: Hybrid Search & Re-ranking

Objective: Improve the relevance of the retrieved textual context.

Tasks:

- 1

Re-ranking:
 - Integrate a **cross-encoder** model to re-rank the top-N results from the hybrid retriever.
 - (Optional) Work on a custom approach for re-ranking (graph-based, LLM as an expert, etc)
- 2

Metadata Integration:
 - Extract basic metadata during text processing (e.g., page number, approximate section, content type).
 - Experiment with using **metadata filtering** in conjunction with retrieval (e.g., "search for X only in pages 10-20").
- 3

Sparse & Hybrid Retrieval [optional for interns]:
 - Implement a **sparse retrieval** method (e.g., BM25).
 - Combine dense and sparse retrieval scores to create a **hybrid retrieval** system.

Next: Final Assessment

In Progress 50%

Retrieval-Augmented Generation (RAG)

- Retrieval-Augmented Generation (RAG)
- Final Assessment

Course Tasks 0/1

Course Evaluation

