**LLM Learning:**

1. Python
   1. Python Dictionary
   2. TypedDict
   3. Pydantic
   4. Dataclass
2. Read various documents
3. Documents to Pages
4. Pages to Chunks and Overlap Chunks
5. Parent & Small Chunks
6. Embedding
7. HyDE (Hypothetical Document Embeddings)
8. Vector DB:
   1. Milvus
   2. PGVector
9. Models
   1. LLM, Chat, Chains
   2. Bind\_Tools
10. RAG
    1. RetrievalQAChain
    2. ConversationalRetrievalChain
    3. MultiQueryRetriever
    4. SimpleSequentialChain
    5. RePhraseQueryRetriever
    6. SelfQueryRetriever
    7. EnsembleRetriever
    8. ReRank
11. Prompt Template
    1. Prompts
12. LangChain Spark
13. LangChain DuckDB
14. LangGraph
    1. Nodes
    2. Conditional Edges
    3. LangStudio
    4. LangSmit
15. Build Vector Store Agents Pipeline
    1. Store Iceberg table metadata and DDL info in Milvus
16. Project: AI Iceberg
    1. Agentic tool to query iceberg tables in various Catalogs such as: Glue, Polaris, UnityCatalog etc.