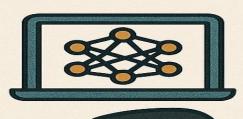
DATATHON







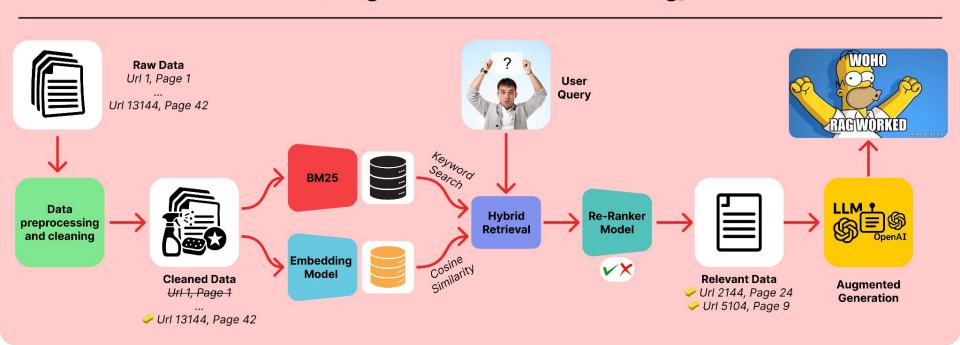






RAG(E) Pipeline

RAG(E Against the Machine Learning)



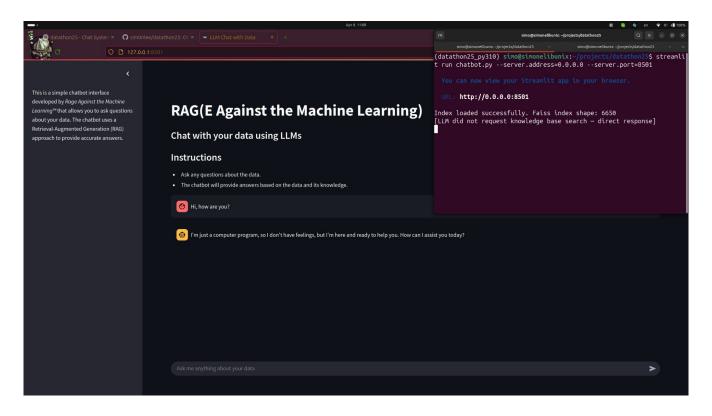
Data Cleaning and Preprocessing

- Only keep alphanumeric characters
- Remove stopwords
- ☐ Lowercase
- Lemmatization
- Remove large garbage pages
- ☐ Chunked each page into overlapping windows

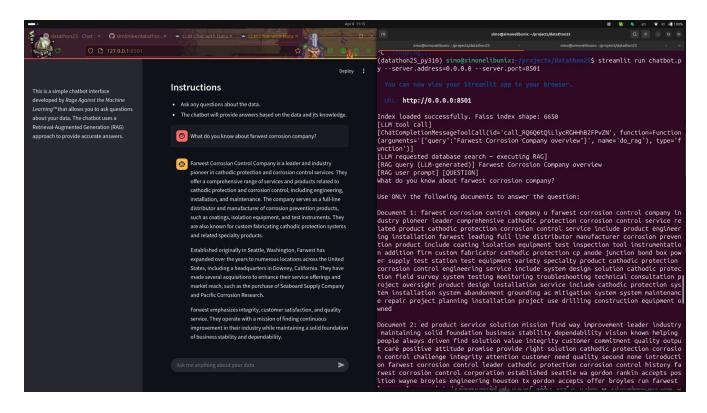
Indexing Strategies

- Embeddings Indexing with FAISS
 - LLM-embeddings-based approach for efficient similarity search and retrieval using FAISS indexing.
- 2. BM25 Indexing
 - BM25 uses traditional term-frequency-based scoring for fast and effective lexical retrieval.

Retrieval and Generation (1/3)



Retrieval and Generation (2/3)



Retrieval and Generation (3/3)

