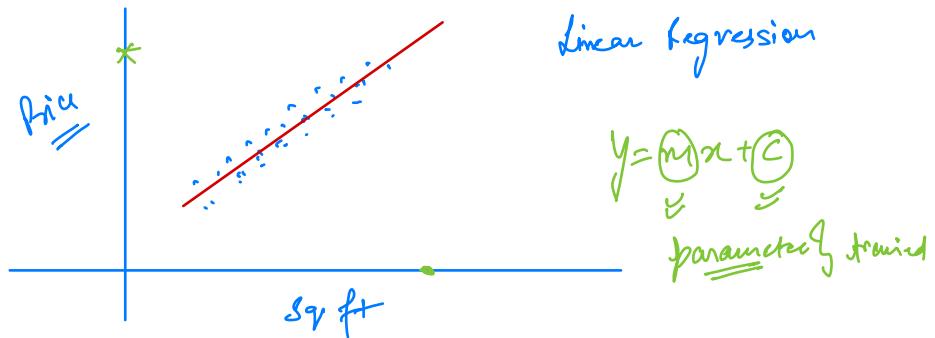


Large Language Models

Agenda → LLMs as Teaching Assistants.

Neural Nets designed to understand, generate or respond to human like text.

→ Deep neural networks trained on massive dataset



- question answering
- translations
- Summarization
- Sentiment analysis

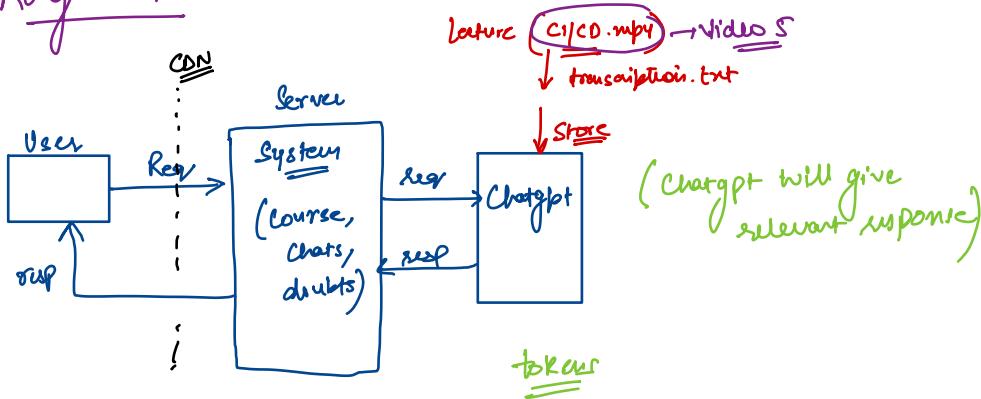
Basic use-cases of
LLM

→ often students have questiⁿ related to the lesson

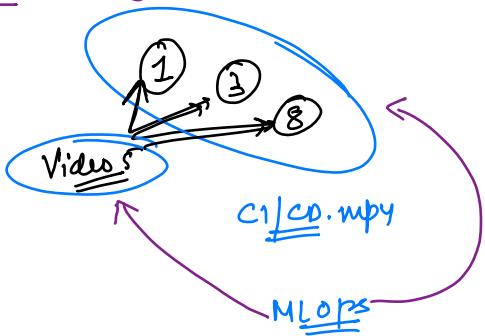
Hiring TA → expensive
→ train

LLMs → feedbacks are more descriptive
→ TAT becomes less

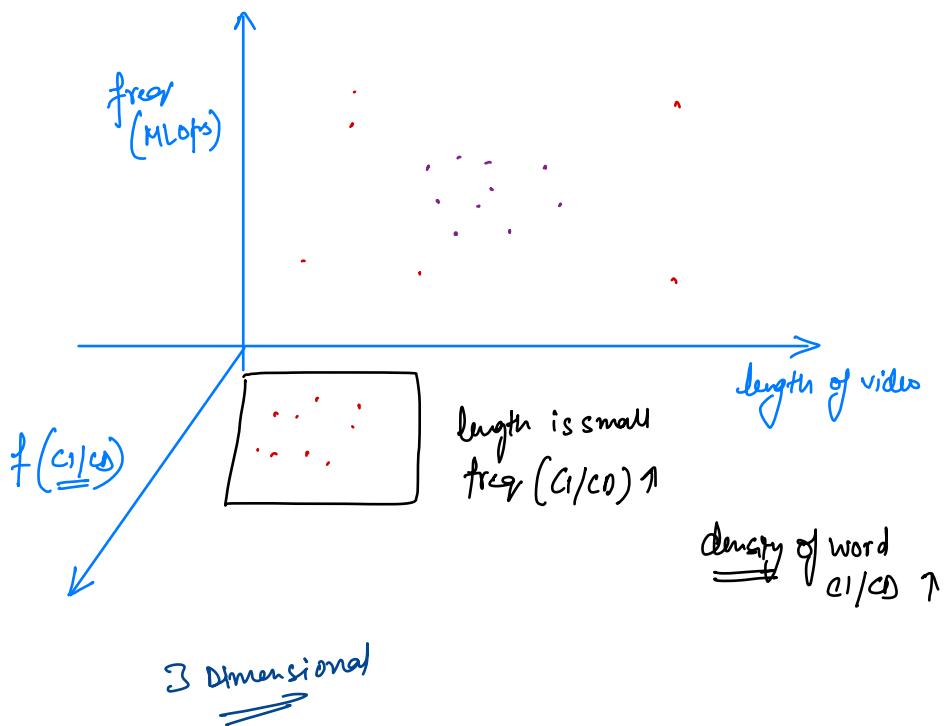
Rough Sketch



Auxiliary doubts (around the topic doubts)

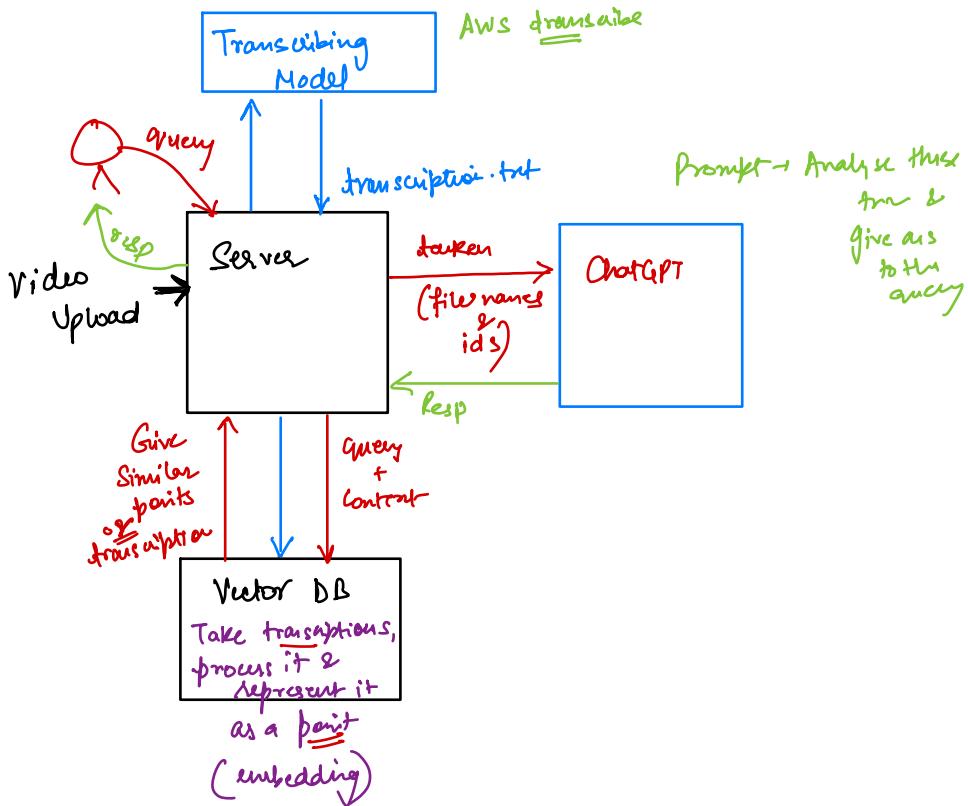


Vector store



Query → 10-15 key words (n-dimensional)

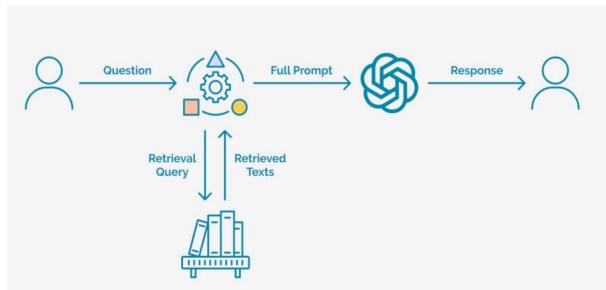
- ✓ FAISS → Facebook AI Similarity Search
- ✓ VectorDB → postgresql (pgvector)



RAG → Retrieval Augmented Generation

Optimizes the process of response generation

↓
external document (domain specific)



Framework → LangChain

- ① Document loading (Youtube, Wikipedia, pdf)
- ② Splitting (Small chunks)
- ③ Vector store (FAISS)
- ④ Retrieval
- ⑤ Output

AI interviews

openAI (whisper)
Speech x text (≡)
Amazon transcribe
Speak

