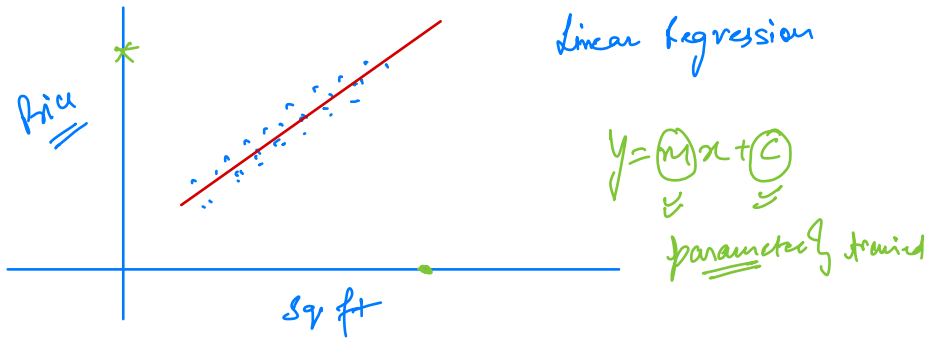


# Large Language Models

Agenda → LLMs as Teaching Assistants.

Neural N/ws designed to understand, generate or respond to human like text.

→ Deep neural networks trained on massive dataset



- question answering
- translations
- Summarization
- Sentiment analysis

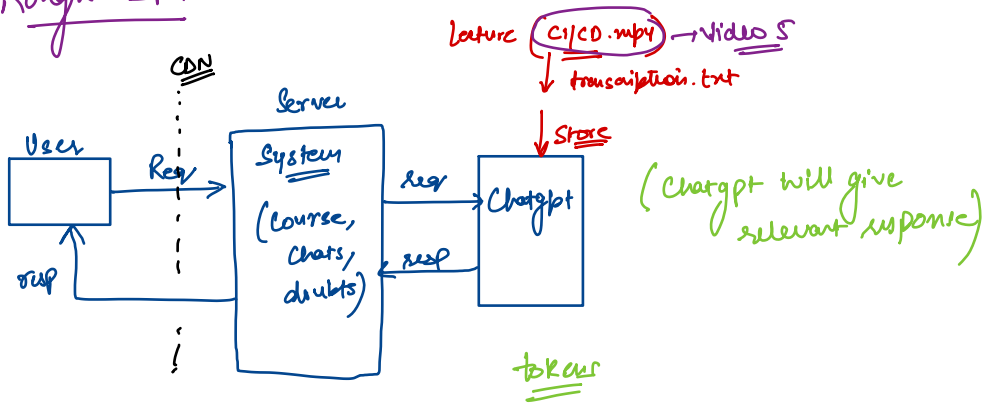
Basic use-cases of LLM

→ often students have quest<sup>n</sup> related to the lesson

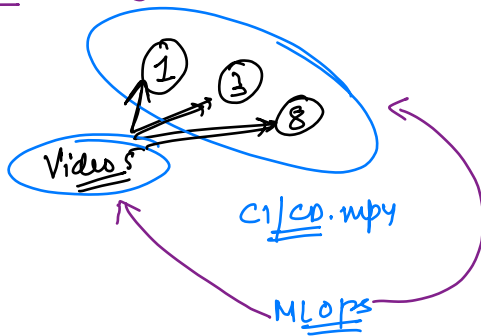
Hiring TA → expensive  
→ train

LIME → feedbacks are more descriptive  
→ TAT becomes less

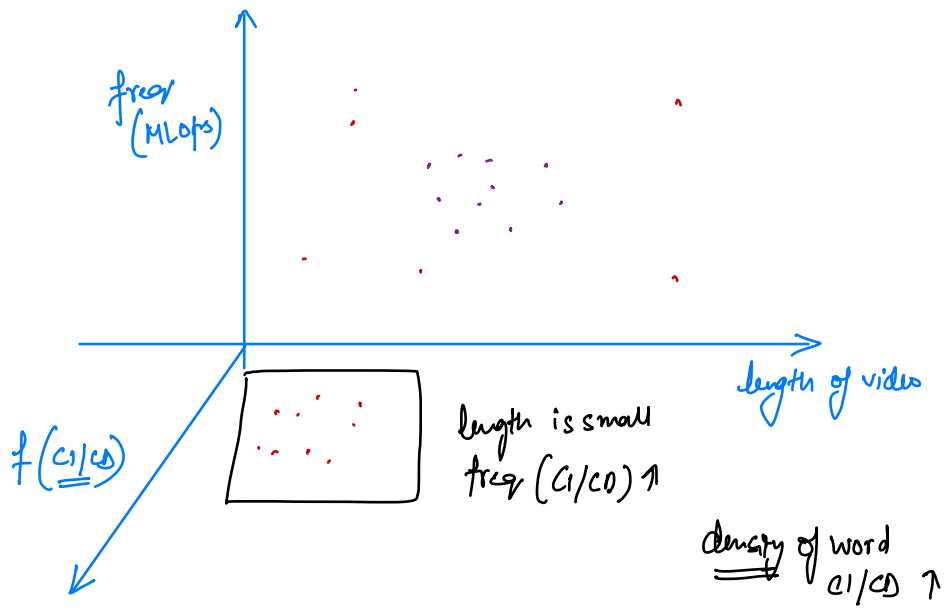
## Rough sketch



## Amillary doubts (around the topic doubts)



Vector store

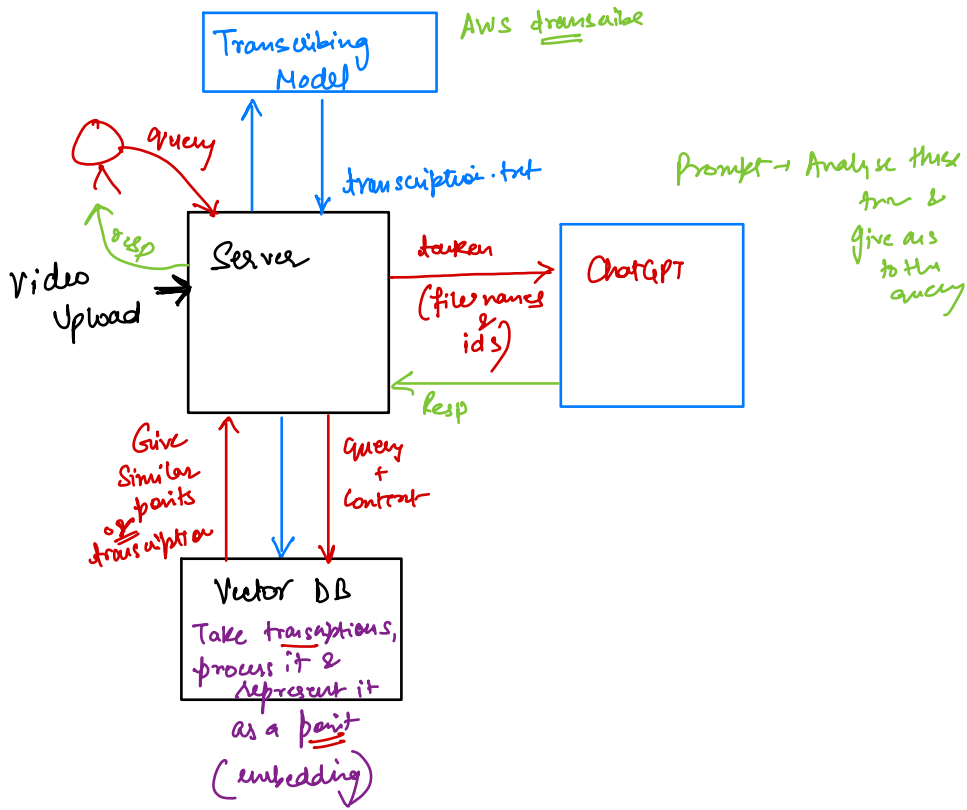


3 Dimensional

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

✓ FAISS → Facebook AI Similarity Search

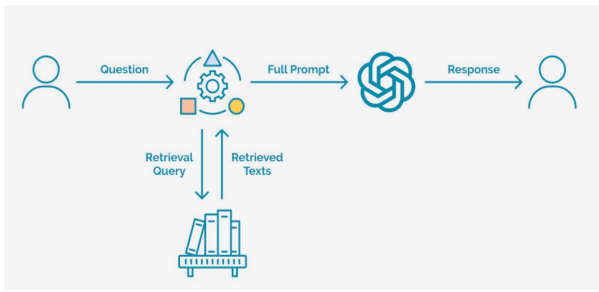
✓ vectorDB → postgres 802 (pgvector)



RAG → Retrieval Augmented Generation

Optimizes the process of response generation

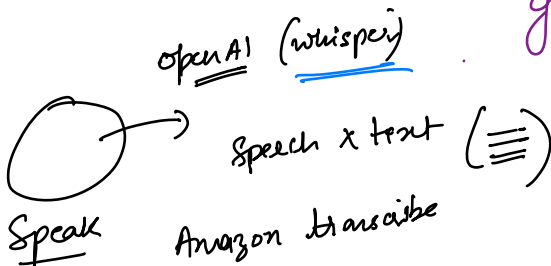
↓  
external document (domain specific)



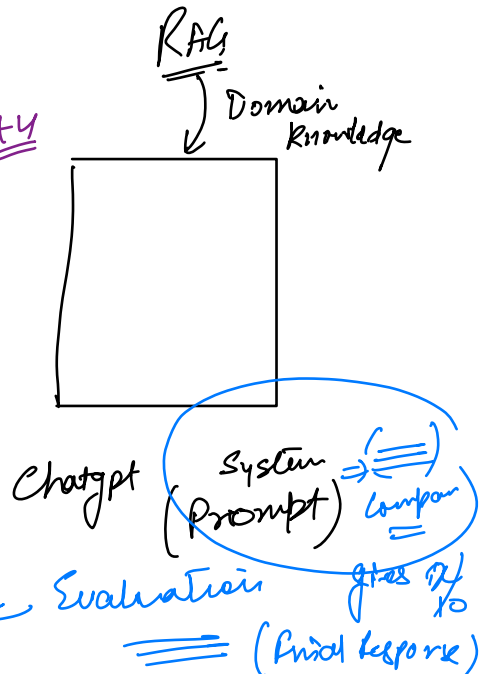
Framework → langchain

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

AI interviews



gpt4



Response ← text to speech Evaluation gives 9/10 Final Response