

07-01-2025

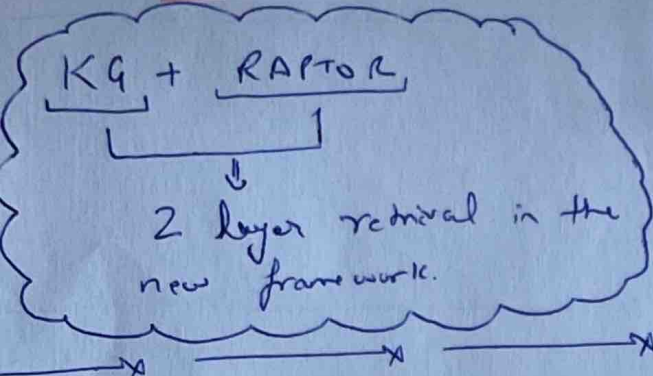
## \* Last Meeting

1) RAPTOR

2) Graph RAG } Motivation

→ Different level of communities

## Final Target :-



## KG Construction

→ Using only prompts

→ Lanchain

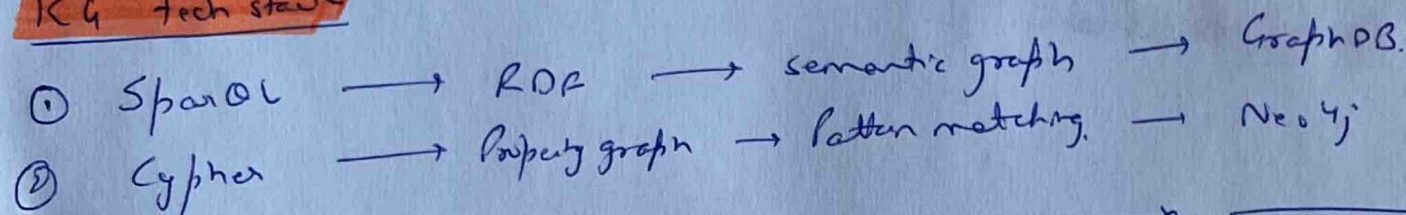
→ Neo4j implementation

Problem :- ① Duplication in ~~knowledge~~ <sup>data</sup> base.

Target :- ① Identify Best KG generation method.

② Identify best deduplication method.

## KG Tech stack



## KG Generation Tech stack

1) Framework → Auto KG , Graph Fusion (Image)

VKE (Virtual Knowledge Extraction)

VINE (Virtual Inference Engine)

⇒ Explain Repositories

## 3 step process :-

① Seed concept Generalisation {ontology}

② Candidate Triple Extraction

③ KG Fusion :-

- Entity Merging
- Relationship Resolution
- Novel triplets.

{Explain Image}

→ KG (Knowledge Graph)

## \* Evaluation of KG Generation

Text 2KG Bench → A benchmark to evaluate KG construction from text based on ontologies.

→ 7 metrics to check

- ① Extraction accuracy
- ② Adhere to ontology rules
- ③ Absence of hallucination

## \* Evaluation of KG+RAPTOR Generation

RAGAS } New Metrics

\* Cluster Setup  
Cluster Evaluation :-