Information Retrieval and Synthesis Workflow with Generative AI

Let's begin the discussion by answering a few Questions on Information Retrieval and Synthesis Workflow with Generative AI

Information Retrieval and Synthesis Workflow

An LLM built in 2023 when asked the question - "Who is the president of America in 2027" and it answers with the following - "The president of America in 2027 is Donald Trump". What is this LLM behaviour termed as?

A Grammatical Errors

B Hallucination

C Time-Travel

Information Retrieval and Synthesis Workflow

How can RAG improve customer support on a large e-commerce platform?

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A — By randomly generating responses to customer queries.

B — By retrieving relevant support documents and generating contextually accurate answers.

C — By only providing predefined template responses.

Information Retrieval and Synthesis Workflow

What is a key benefit of using RAG for legal research and document drafting in a law firm?

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A   It eliminates the need for any human oversight.

B   It retrieves and integrates relevant case law and statutes to generate contextually accurate legal documents.

C   It can create entirely new laws.

Information Retrieval and Synthesis Workflow

What is the purpose of chunking before converting them into embeddings?

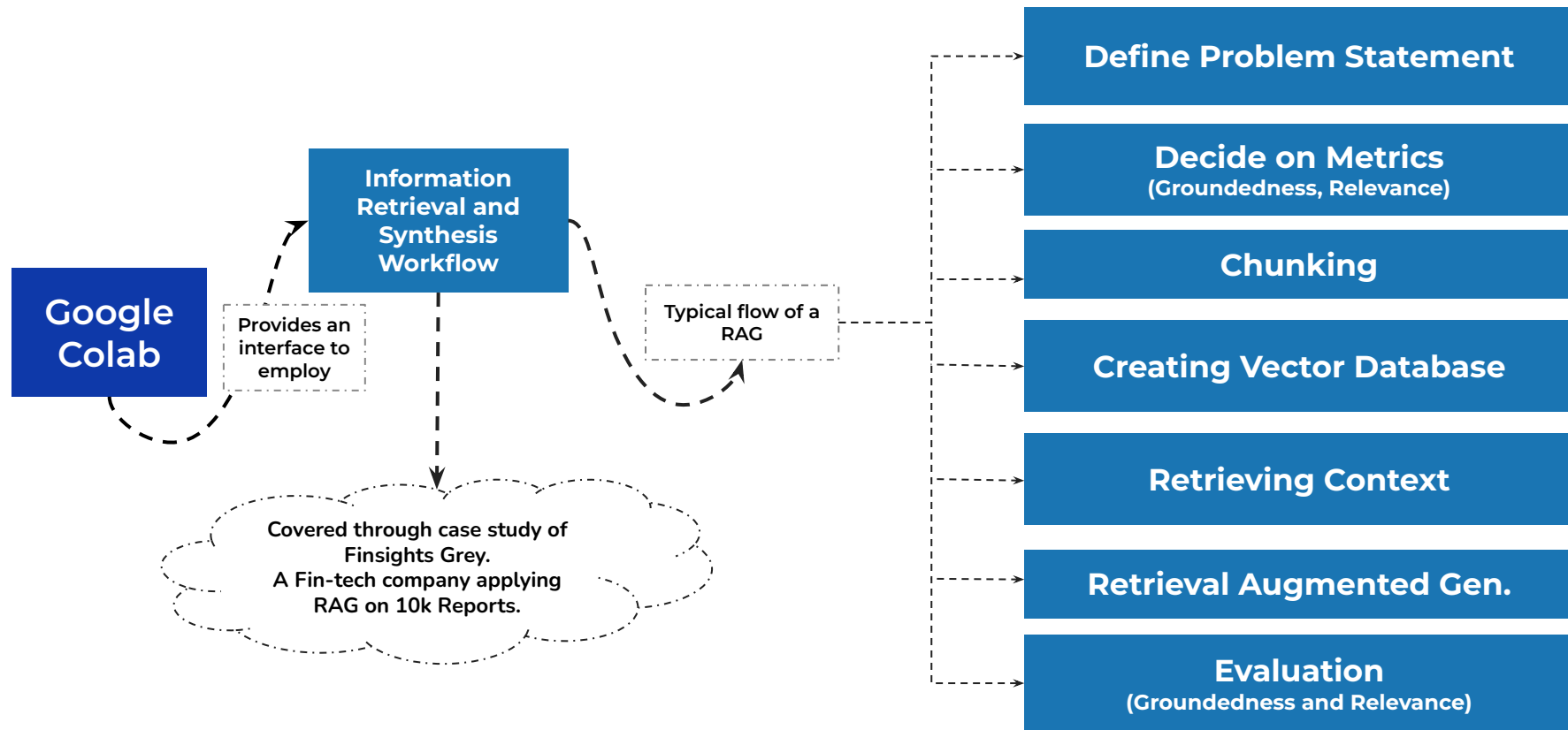**15**

A Small chunks reduce size of the Database

B Converting small chunks into embeddings captures the meaning of the text much better. Large documents when converted into embeddings, all the individual details in the text can average themself out and the whole embedding loses any specificity and becomes general.

Mind Map

Google Colab

Provides an interface to employ

Information Retrieval and Synthesis Workflow

Covered through case study of Finsights Grey.
A Fin-tech company applying RAG on 10k Reports.

Typical flow of a RAG

Define Problem Statement

Decide on Metrics
(Groundedness, Relevance)

Chunking

Creating Vector Database

Retrieving Context

Retrieval Augmented Gen.

Evaluation
(Groundedness and Relevance)

Happy Learning !