

The Generative AI Revolution: A Month-Long AI Exploration



📺📖 YouTube Summarizer and Q&A bot 🤖🎓
[REFERENCE](#)



edquest

Navigating the Future of Learning



🍔🤖 Burger Order Bot 🍕🤖
[REFERENCE](#)



Agenda

- › Transcribe YouTube Video with LangChain [Reference](#)
 - Generate Video Summary
 - Question Answer from Video
- › Introduction to RAG
- › Burger Order Bot [Reference](#)

Transcribe YouTube Videos with LangChain

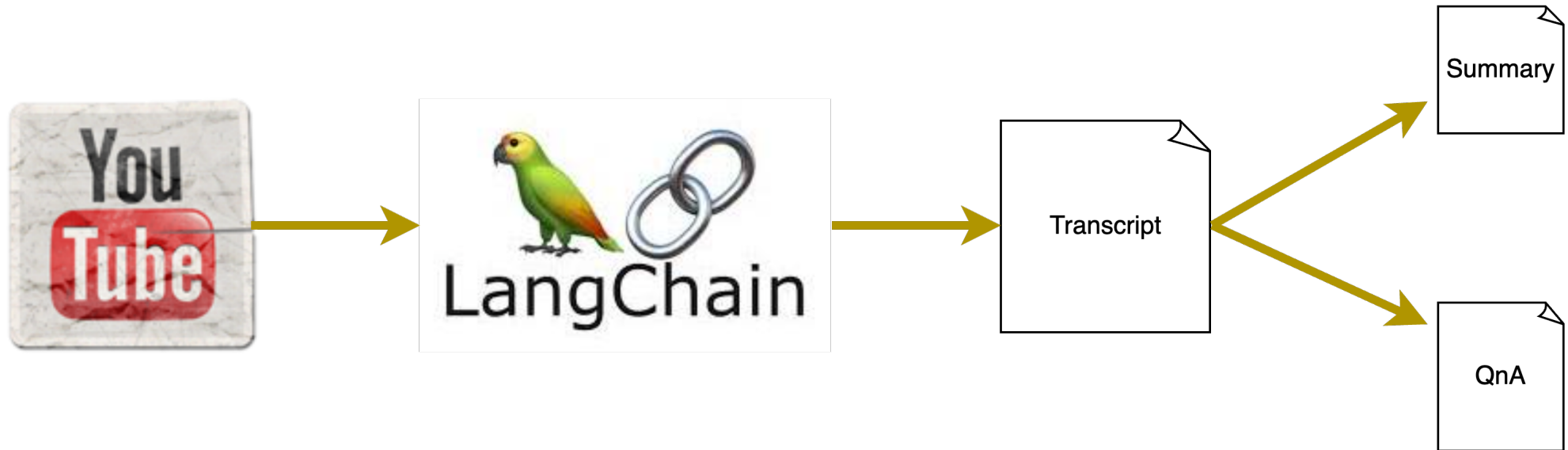
- Generate video summary
- Question Answer from video



Notebook Reference: [https://github.com/edquestofficial/Gen-AI-Cohort/blob/main/2024/march/3 Youtube Transcript/Youtube transcription.ipynb](https://github.com/edquestofficial/Gen-AI-Cohort/blob/main/2024/march/3%20Youtube%20Transcript/Youtube_transcription.ipynb)

Transcribe YouTube Videos with LangChain

- Generate video summary
- Question Answer from video



Notebook Reference: https://github.com/edquestofficial/Gen-AI-Cohort/blob/main/2024/march/3_Youtube_Transcript/Youtube_Transcription.ipynb



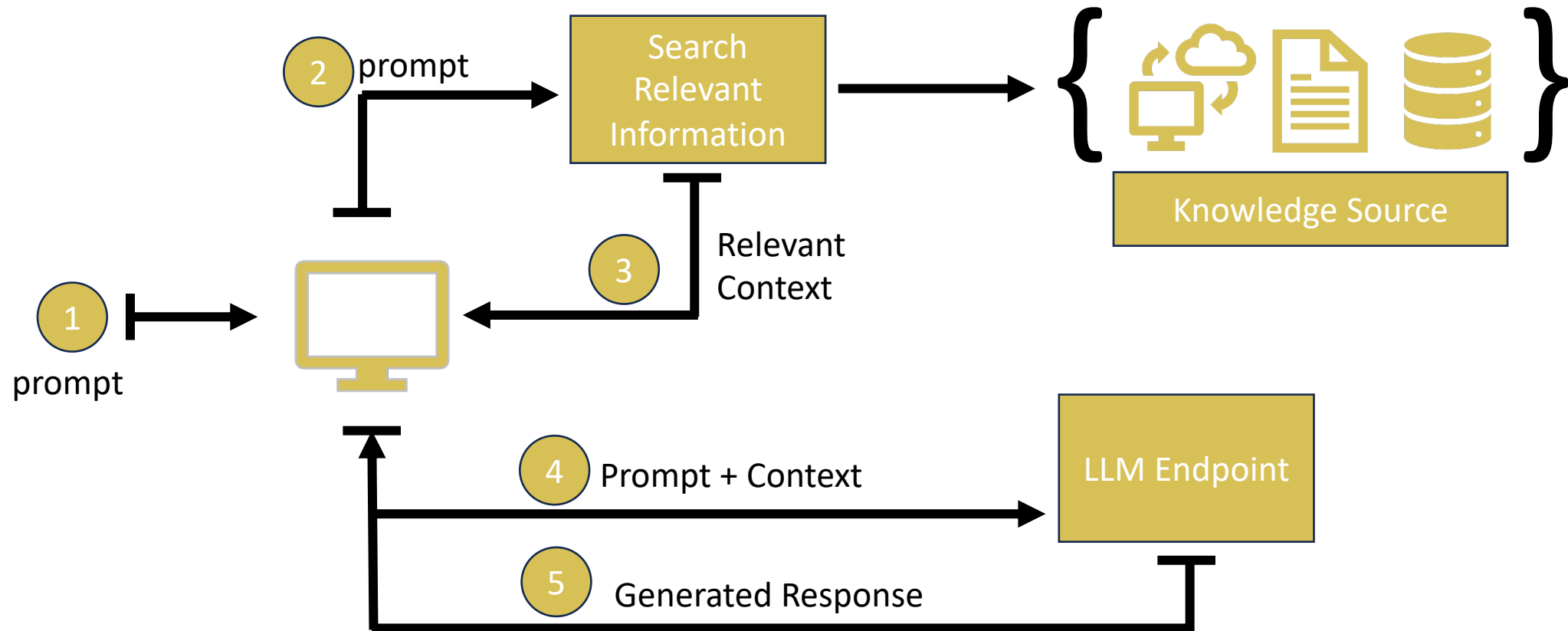
What is RAG

RAG stands for **Retrieval-Augmented Generation**. It is a technique used in generative AI to improve the quality and coherence of generated text.

RAG Models are typically composed of two components:

- **Retrieval module:** This module retrieves relevant text passages from a large text corpus, such as Wikipedia or a specific domain-specific dataset.
- **Generation module:** This module generates new text by conditioning on the retrieved text passages.

What is RAG



- Retrieval Augmented Generation (RAG) Architecture

Burger Order Bot

- Crafting a Chatbot with Gemini-pro LLM and Gradio UI



Notebook Reference: https://github.com/edquestofficial/Gen-AI-Cohort/blob/main/2024/march/4_Burger_Order_Bot/burger_order_bot.ipynb



Burger Order Chatbot GUI

Hi, Welcome to Burger Singh! What can I get started for you?

Chatbot

i want to order classic cheese burger with small fries and coke

Ok, Classic Cheeseburger with small fries and coke. Anything else?

no

Ok, so thats a Classic Cheeseburger, small fries and a coke. Is there anything else I could add to your order?

Retry Undo Clear

Type a message... Submit

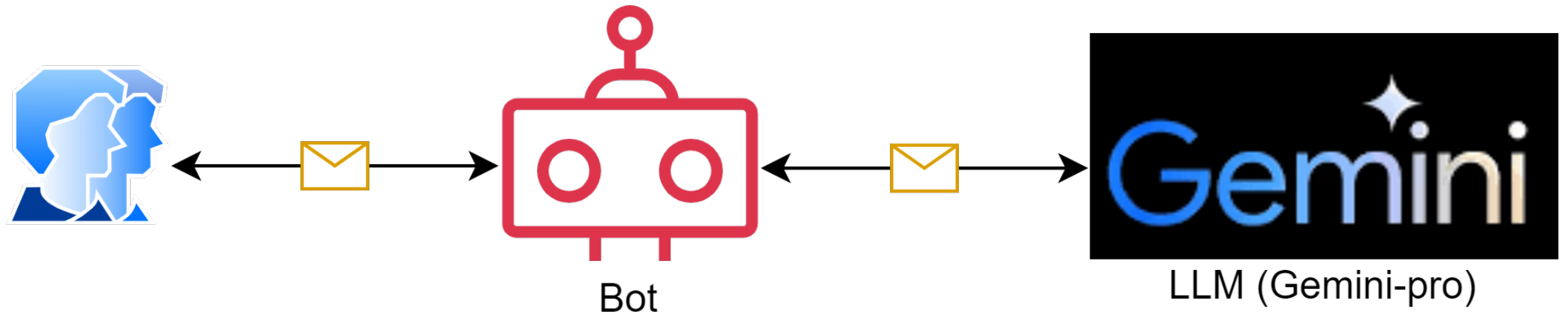
Examples

🍔 🍟 🥤 classic cheeseburger, fries Toppings: extra cheese/ AI sauce Drinks: coke/sprite/bottled water

Notebook Reference: https://github.com/edquestofficial/Gen-AI-Cohort/blob/main/2024/march/4_Burger_Order_Bot/burger_order_bot.ipynb

Burger Order Bot:

- Implementing a Chatbot with Gemini-pro LLM
- Utilizing Gradio for the User Interface



Notebook Reference: https://github.com/edquestofficial/Gen-AI-Cohort/blob/main/2024/march/4_Burger_Order_Bot/burger_order_bot.ipynb



Thank You!

