LLM

learn from huge amount data to generate
output mimc the human

Learn from

Books   Articles
Website   etc.   → LLM   → learn   Linuistic Patterns

                                         Idioms

                                         styles

Trained weights are stored in binary format
.bin or .h5

Prompt Engineering

input text referred as prompt

Prompt Engineering: is the skillful crafting
Prompts to elicit the desired output from language model

Key aspect

1- clarity   2- context   3- Instructions   4- conciseness   5- format

Types of Prompts

Zero-shot Prompting:

Providing a task without giving any examples of how the task should be performed

Few-short prompting:

Giving the model a few examples along with prompt

These examples guide the model understand expected output

Chain of thought prompting:

A technique that involves technique that involves a step-by-step reasoning process guiding the model good with comple task that require logic or reasoning
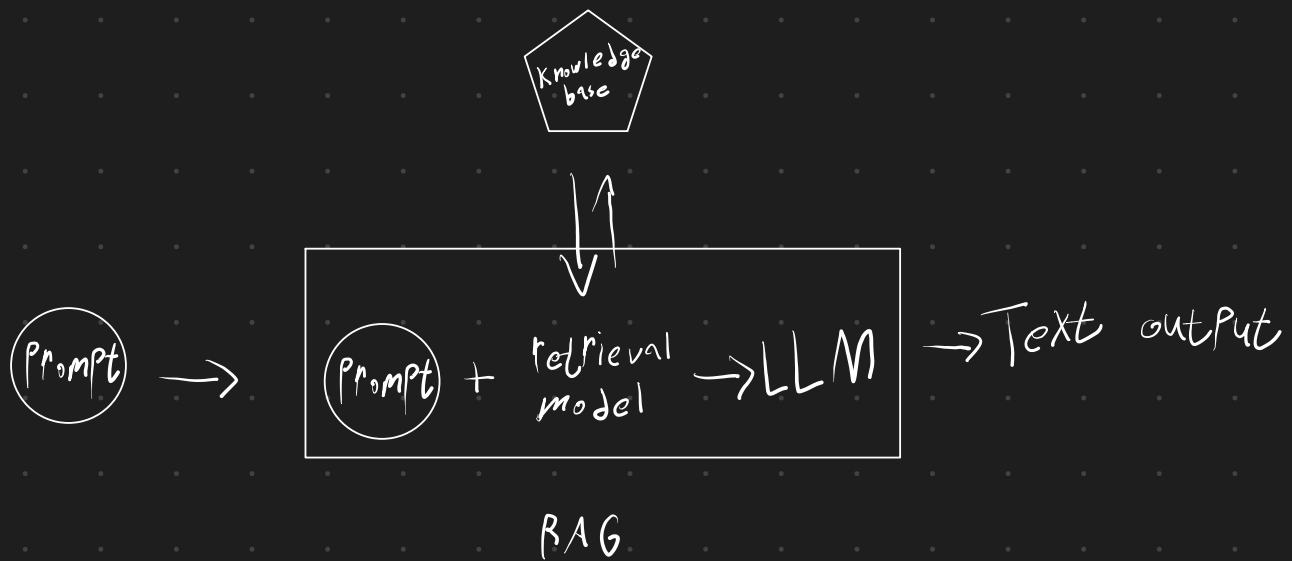
Goals:

1- guiding the response   2- Disambiguation   3- coherence and continuity

4- Improving Relevance   5- Task- specific context

A method in NLP where an LLMs generation process includes a step to retrieve external knowledge

- Useful when combine LLM with accurate knowledge

RAG

Fine-tuning LLMs

Continuing the training phase of pre-trained model with specific dataset to adabt the model to particular tasks and adjust model weights

Yes, we can use generator Ai to create datasets for other Ai models

Bias Mitigation

1- Diverse Training Data   2- Continuous Testing

critcal step

there's some tools to detect bias and aws tools

Audit Algoribhms