Theme: Building with LLMs

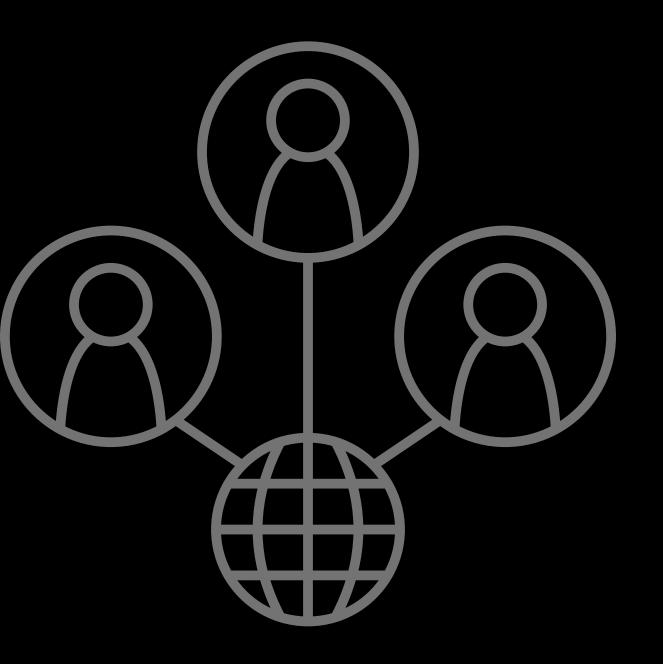
Seperative Alanzania

By Kalebu Gwalugano

Why this community?



Build capacity of people who are builders and not just consumers of Generative AI



A safe place for AI enthusiasts to share and network together



Generative AI Tanzania

Our community has now about 111 members on WhatsApp group

https://bit.ly/44XpwKN

We are just getting started

1st

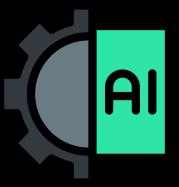
Theme: Workshop on Prompt Engineering

2nd

Theme: Anything generative Al

3rd

Theme: Building with LLMs



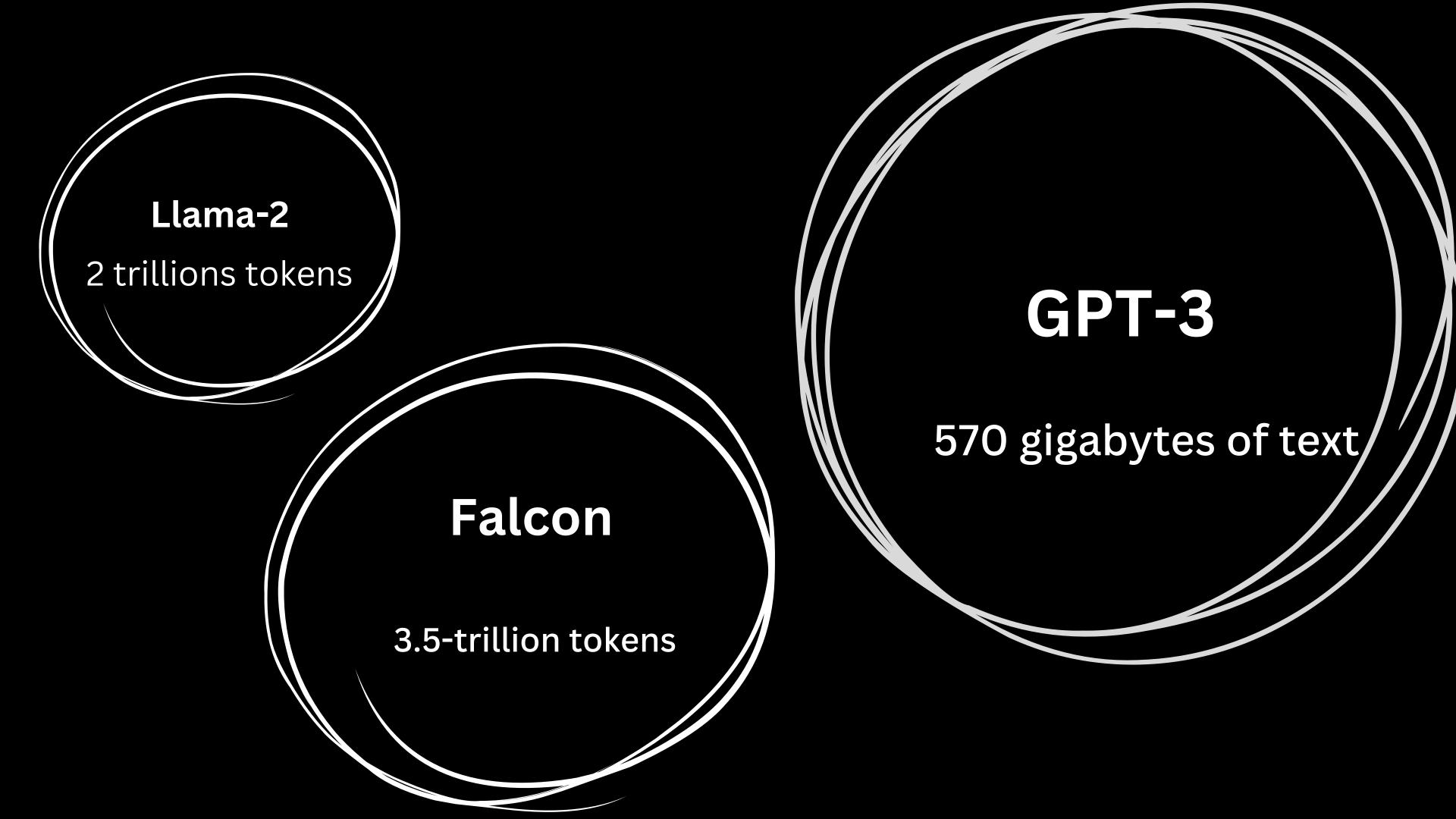


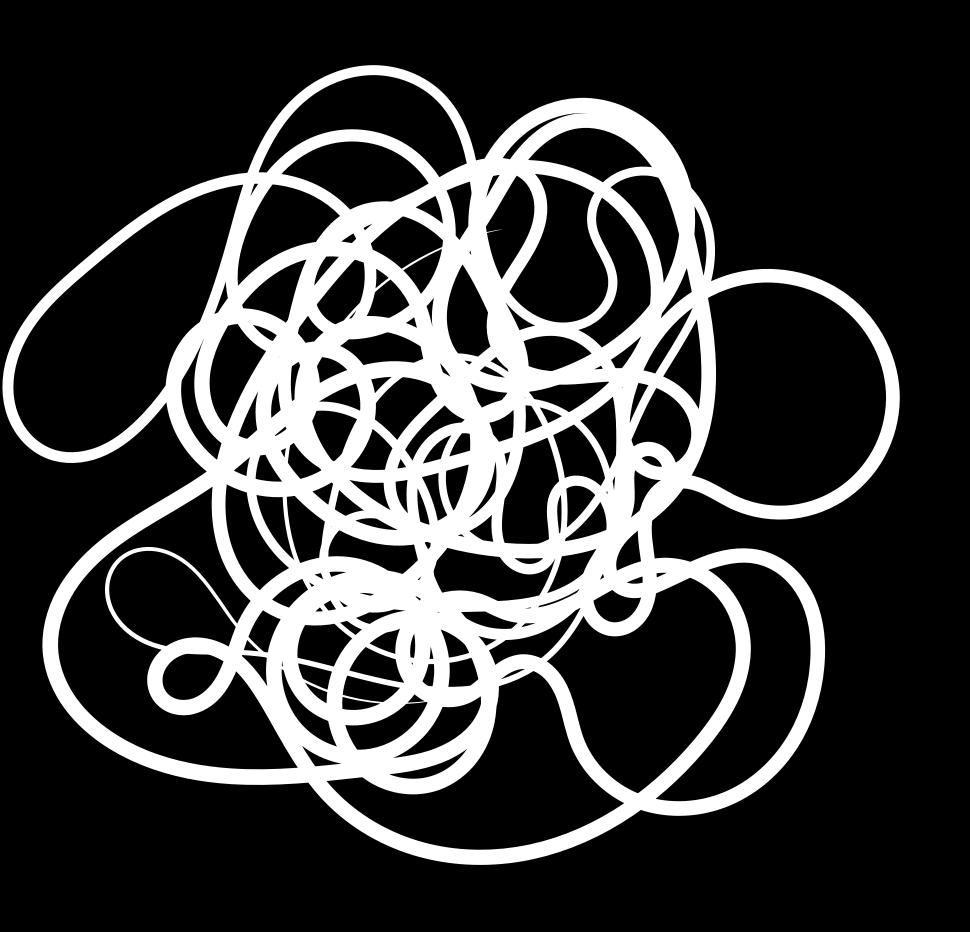
Any Question up to here?



LLMs?

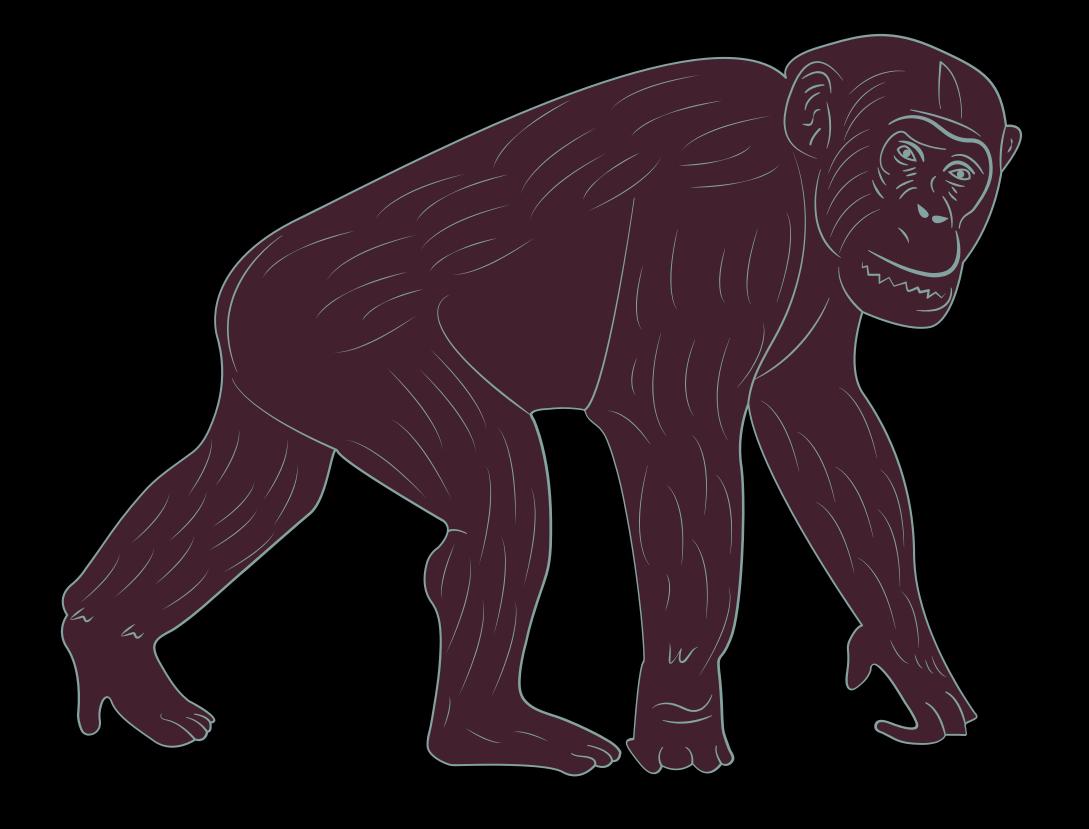
Large language models (LLMs) are deep learning algorithms that can recognize, summarize, translate, predict, and generate content using very large datasets.





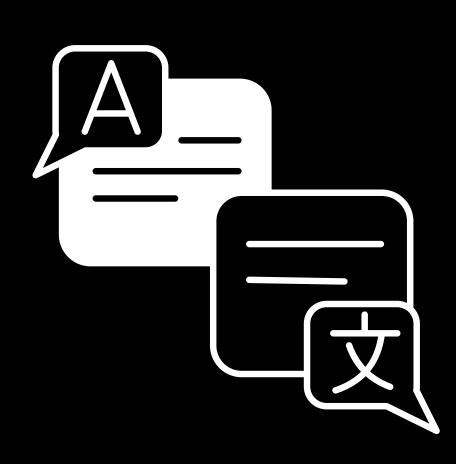
Tokens? How does they work?

Trust me you will get it



Life before LLMS?

Traditional NLP vs LLMs



Traditional Natural language processing is focused on understanding language by it's individual components



LLMs try to understand the language as a whole

Traditional NLP

Part of Speech tagging (POS)

Dependency parsing /

Stemming

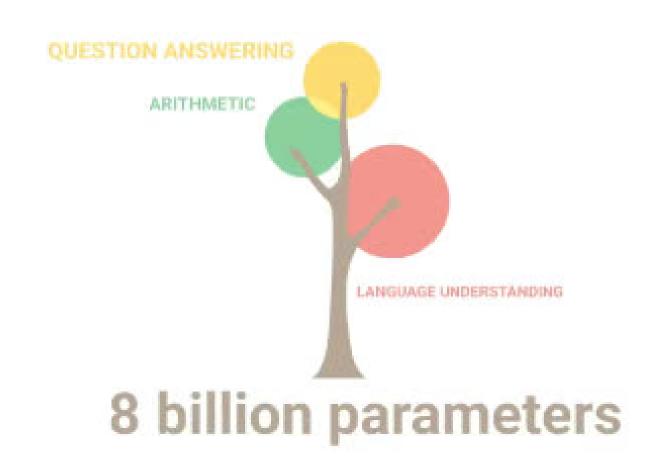


Stopwords
Analysis

How do LLMs learn?



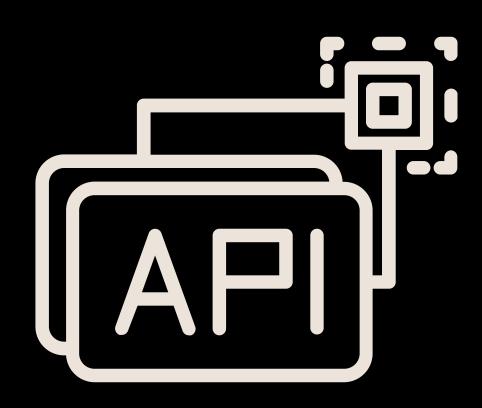
LLM emergent behaviors

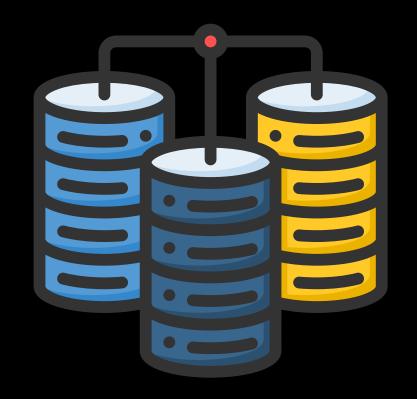


What can you do with LLMS?

- Semantic Search
- Chatbots Application
- AI assistants
- Automate workflows
- So much more

Good, Now how can I get started?

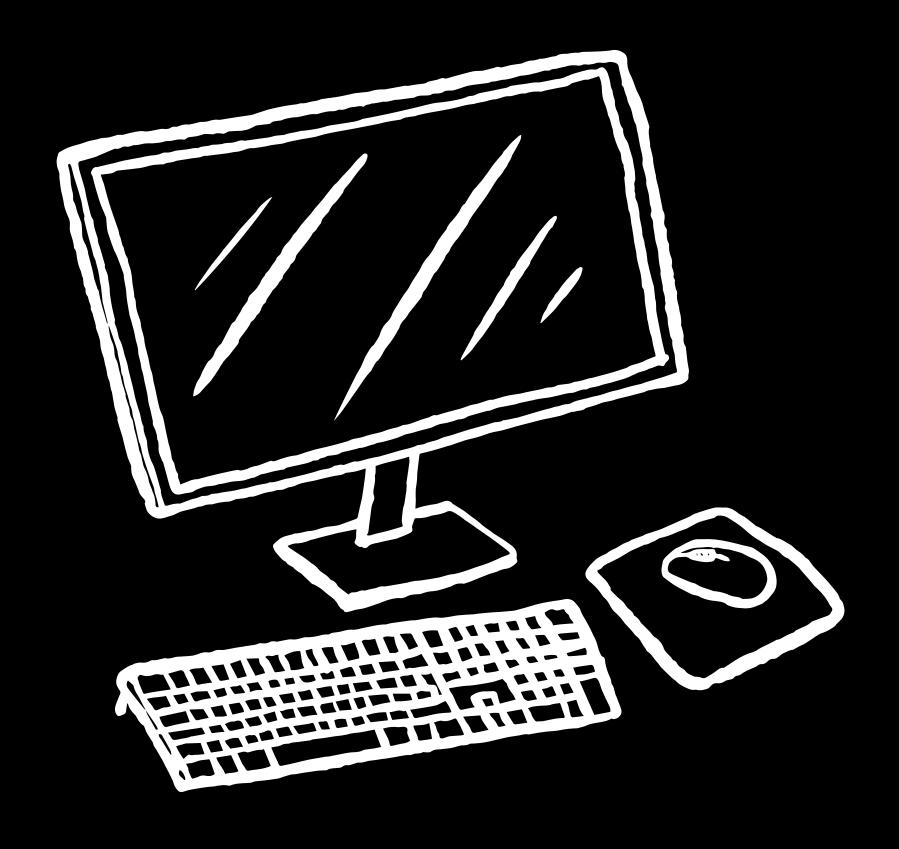




Use API from LLM provider like OpenAI, Cohere, Google, Anthropic and so on You can either run load the entire models

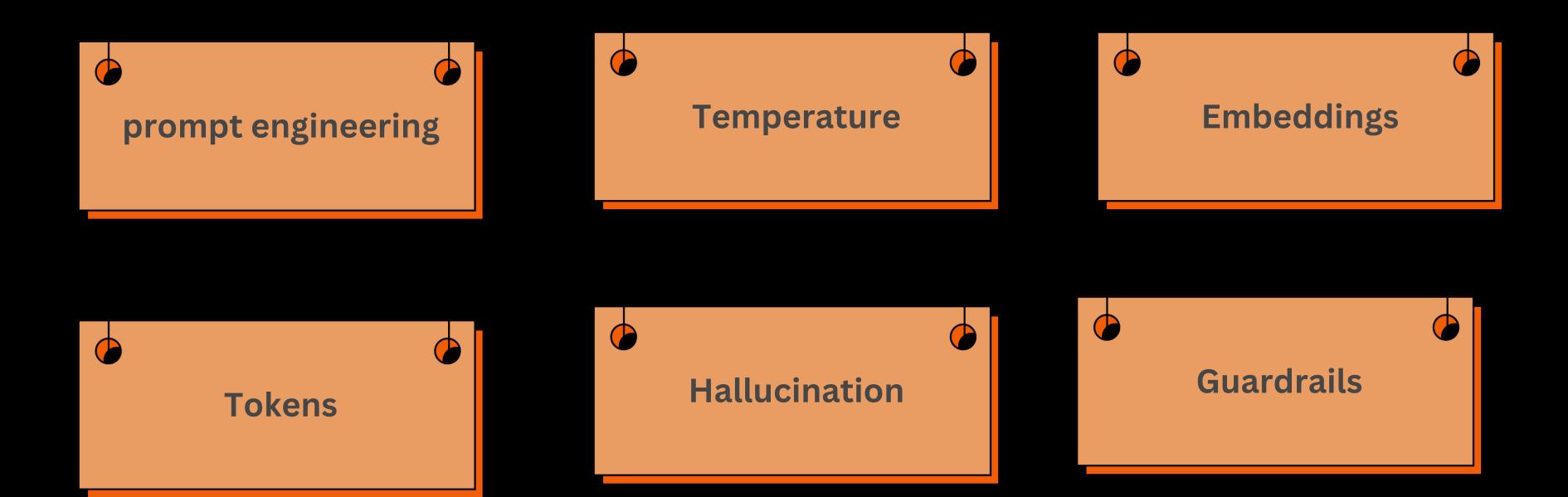
I will be covering the API route

Mainly OpenAI



Everyone will have their private AI node that is free from third parties, constantly feeding your data from a variety of angles

Terminologies



Tools we are going to look



LLama-index

hugging-face

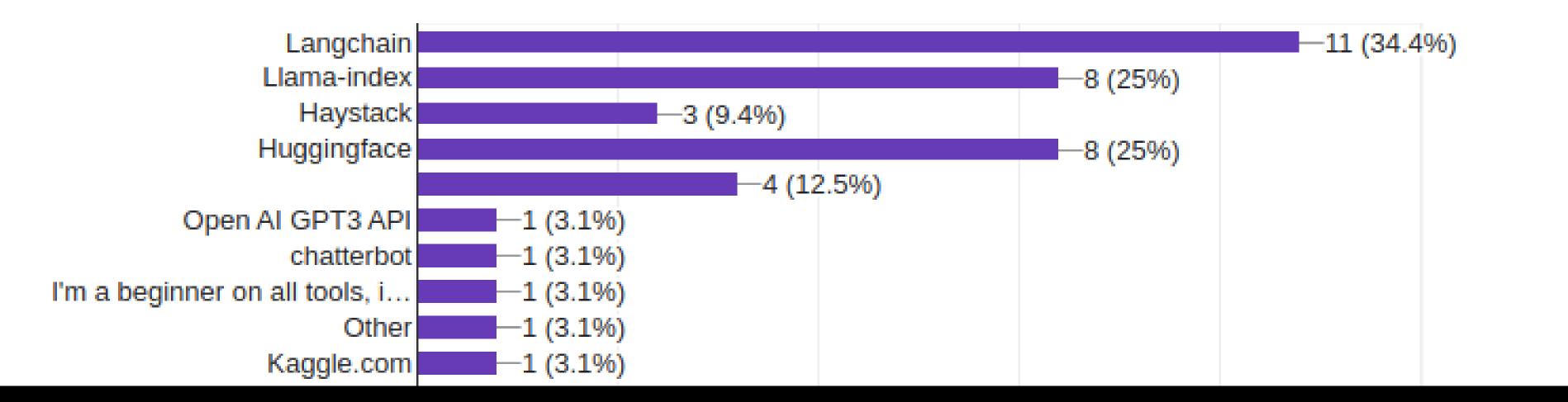
haystack

Which of the following tools have you previously worked with or explored? (Multiple

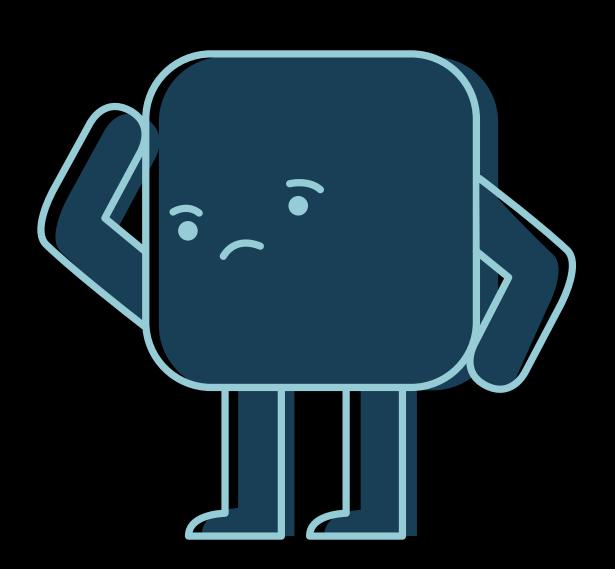
choices: Langchain, Llama-Index, Haystack, Hugging Face, Others - Please specify)



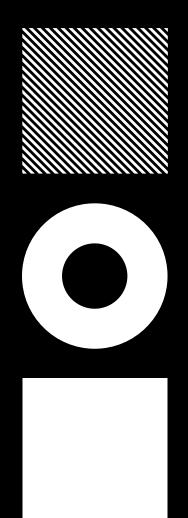
32 responses



Survey Response



What do these tools actually do?



Think of them as web frameworks but for AI applications, They are architected in a way that simplifies adding complex features like memory, external knowledge bases and so on

If your use case is too simple, you might not need them at all

We are going to use Python

You should be able to easily replicate across other languages

