Limitation of ChatGPT

Although ChatGPT is a valuable tool that can perform a huge variety of tasks, there are some limitations to be aware of to use it effectively.

The LLM interprets the prompt and generates relevant text based on its language understanding.

So, we need understand how the LLM work.

When developing ChatGPT, the LLM was shown a huge amount of text data.The LLM was shown a huge amount of text data to build its understanding of the structure of language by looking at the frequency and order of words. When we provide a prompt to ChatGPT, it uses its understanding of the training data to generate the words that are most likely to follow the prompt.

Limitation 1 - Knowledge cutoff

- Trained on data from up to September 2021
- Not connected to external sources
- Isn't aware of events beyond this date

Limitation 2 - Training data bias

- ChatGPT was on a huge text dataset, including:
  - Books
  - Articles
  - Websites
- Model may learn the biases from the training data
- Could bias the responses

Limitation 3 - Context tracking

- Struggles to keep track of the context if the focus shifts
- Can lead to inaccurate or irrelevant results
- Tip: Keep conversations to a single topic

Limitation 4 – Hallucination

- Model confidently provides inaccurate information
- Often occurs when trying to go beyond the model's knowledge or abilities

Limitation 5 - Legal and ethical considerations

- Example: Creating a song in the style of an existing artist
  - Who owns the new song?
- Easy to fall into a legal gray area

The creation of ChatGPT

- It was trained on text data from a variety of sources
- It was fine-tuned using an iterative process that involved rating response quality

Knowing your limits

- Ownership of responses can be unclear
- CHatGPT can lose track of the context in complex conversations
- The training data potentially contained biases
- ChatGPT isn't aware of events past September,2021