LLM: Large Language Model

Haven't you ever felt tired of surfing through tens of websites searching for a solution or information about a topic? It takes long hours to try and find information from different websites. Also, sometimes you need to research information that is nowhere on the internet. These problems, among thousands of others, are solved by Large Language Models, commonly known as LLMs. But you should never confuse LLMs with just chatbots or just for research. LLMs are much larger than that. In this blog, we will discuss LLMs, when and how they were created, how important they are in our daily lives, and what the future holds for them.

What are LLMs?

As a type of Artificial Intelligence (AI), Large Language Models are those models that are trained on vast amounts of data to recognize patterns and symbols from them. LLMs are able to generate human-like text as they are fed the data through which they can identify patterns related to humans. LLMs often use deep learning, which is made up of networks. These networks help them understand text prompts and generate outputs accordingly. Now, let us look back to the history and birth of LLMs.

A Brief History of LLMs

The concept of LLMs was brought into the world during the 1960s. Because of the efforts in AI, Large Language Models (LLM) and Natural Language Processing (NLP) gained traction. ELIZA, one of the world's first NLP Programs, was created at MIT by Joseph Weizenbaum. By using techniques like pattern matching, ELIZA easily held conversations with humans. This kickstarted the world of LLMs. Although the beginning seemed easy, it was challenging to develop better programs using the same limited tech consistently. However, in 1997, the emergence of Long Short-Term Memory Networks changed the whole scenario.

Previously, many models failed to handle long forms of text, which came out to be an easy task for LSTM Networks, making it a revolutionary prototype. For over two decades, extensive research and development was put into models such as the transformer model. Finally, in 2018, Google introduced the BERT Model, which is something new and idealistic. Following this, GPT-2 was introduced in 2019, and GPT-3 was introduced in 2020. OpenAI's ChatGPT was introduced in 2023, astonishing the whole world with its unique features. ChatGPT was then known to be one of the best LLM models to have ever been developed because of its functionalities, which were challenging for the previous models to compete with.

Till now, you must be thinking of LLMs as some exclusive and high-end technologies. However, we use LLMs unknowingly in our daily tasks. Let's discuss how.

Daily Life Applications of Large Language Models

- **Generating Content**: One of the most common uses in people's everyday life is developing content. Be it short-form or long-form articles and blogs, content calendars, images, videos, or even video captions, LLMs play a significant role in helping people, especially working professionals, complete their tasks more efficiently and effectively.
- **Sentiment Analysis:** LLMs are now trained in such a way that they can easily understand the emotions of a user reflected through their words. For example, in order to get an overall feeling of a restaurant's reviews, LLMs scan both positive and negative ones and see through the keywords what the user is trying to express. This is why you must have observed that LLMs kindly apologize whenever you type in a prompt in an annoyed manner.
- **Learning:** As a solution to most students, learning is also a great solution provided by LLMs. You can quickly type in your topic along with the personalized requirements, and the LLM will quickly teach you the topic. Additionally, you can adjust the tone and language of the outputs easily to suit your understanding, similar to human tutors. As a beneficial factor, you can now not only chat with LLMs but also hop on a voice call with them in different languages and accents. This way, you can get an offline experience at home that fits your needs.
- **Research**: Instead of scrolling through multiple websites, you can now conveniently find data and research reports, both summarized and explained, on a single LLM platform. This function comes in handy for marketers, writers, market researchers, and more, as they do not have to waste a lot of time and effort on many websites but just one.

The Best and Most Popular LLMs in 2025

In 2025, there are hundreds of LLMs available all over the internet, but here is a list of the most popular and widely used LLMs by people:

- **OpenAI's ChatGPT**: ChatGPT, the latest model in the GPT Series, was first introduced by OpenAI. Its outstanding features and functionalities, paired with ease of use, have made it one of the most successful LLMs to exist.
- **Google's Gemini:** Announced on 6 December 2023, Google entered the LLM space by developing the Gemini, known initially as Bard.
- **Deepseek:** As China's latest LLM, Deepseek has hit the headlines recently for being more popular than ChatGPT.

Summing up

Large Language Models, commonly abbreviated as LLMs, were first introduced to the world in the 1960 by the development of ELIZA. Since then, decades have been put into creating more advanced and understanding LLM models. The BERT Model, made by Google in

2018, marked the beginning of new-age LLMs. Since then, many popular LLMs such as ChatGPT, Gemini, MetaAI, Deepseek, and more have rolled out, unique in their own concepts and applications. LLMs ease our daily tasks by offering functions such as generating content, learning, researching, and much more. But this is not it; there is much more effort and money being put into the development of LLMs. This way, LLMs are gradually becoming more and more advanced and integrated into our lives.

Research Links:

- https://www.cloudflare.com/learning/ai/what-is-artificial-intelligence/
- https://www.analyticsvidhya.com/blog/2024/03/applications-of-llms/
- https://en.wikipedia.org/wiki/ELIZA
- https://www.labellerr.com/blog/evolution-of-neural-networks-to-large-language-models/#:~:text=LSTM%20networks%20played%20a%20critical,architectures%20like%20transformers%20and%20attention
- https://www.scribbr.com/frequently-asked-questions/when-was-chatgpt-released/#:~:text=ChatGPT%20was%20publicly%20released%20on%20November%2030%2C%202022.
- https://www.grammarly.com/blog/ai/gpt-3-vs-gpt-4/#:~:text=GPT%2D3%2C%20released%20in%20June,GPT%20series%20developed%20by%20OpenAI.