Horlach Sofiia

National Aerospace University "Kharkiv Aviation Institute" Zjubanova
Natalia, senior lecturer of the Foreign Languages Department

OPTIMIZING HUMAN-AI INTERACTION: EMOTIONAL INFLUENCE ON LARGE LANGUAGE MODELS

The development of artificial intelligence generally affects our lives in many ways, such as research, work, and education. In particular, Large Language Models (LLMs) impact our daily experience because of the simplicity of their usage and the comfortable way we interact with them as users. The most popular LLMs, such as BERT, Llama 2, ChatGPT, and GPT4, use simple chatbot interfaces to communicate. That makes us think about it: what is the way to optimize your interaction with a machine to get the maximum of its effectiveness?

First, the most important thing about working with artificial intelligence (AI), and especially LLMs, is understanding the concept. Basically, AI is a machine that is trying to copy a human being's mind but never understands it in the first place. That is the whole point of it: you should understand the limitations of AI to produce productive results. AI doesn't have consciousness, self-awareness, or the ability to form new insights independently. Their responses are generated based on patterns and information present in the data on which they were trained. That is why they are designed not to pass the Turing test.

Second, this fact itself creates the duality of methods of work with LLMs. While they are designed not to act human, they still use basic human logic with one big difference: they calculate everything that a human being does intuitively. There is another thing about it: since they are learned specifically to imitate, you can use this fact to maximize your outcome. In the research "Large Language Models Understand and Can Be Enhanced by Emotional Stimuli" (12 November 2023), there are some experiments. Researchers gave the LLM a prompt and then the same prompt, but with an emotional stimulus (for example, "This is very important to my career" or "Provide your answer and a confidence score between 0 and 9 for your prediction," etc.). The results clearly showed that LLMs enhanced by emotional intelligence can achieve better performance, truthfulness, and responsibility.

In conclusion, you should remember that interacting with an AI is a dynamic process, and refining your communication based on the AI's responses can help you get the most accurate and relevant information. Try to understand the mechanics AI uses to proceed with your prompt and manipulate them to get the result you will be satisfied with.

Reference

1."Large Language Models Understand and Can Be Enhanced by Emotional Stimuli" https://arxiv.org/pdf/2307.11760.pdf?utm_source=www.theneurondaily.com &utm_medium= newsletter&utm_campaign=x-ai