



ChatGPT Revolutionary in Artificial Intelligence.

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ABSTRACT

ChatGPT (Chat Generative Pre-trained Transformer) is an artificial-intelligence (AI) chatbot developed by OpenAI and launched in November 2022. It is built on top of OpenAI's GPT-3.5 and GPT-4 families of large language models (LLMs) and has been fine-tuned (an approach to transfer learning) using both supervised and reinforcement learning techniques.

ChatGPT was launched as a prototype on November 30, 2022, and quickly garnered attention for its detailed responses and articulate answers across many domains of knowledge. Its uneven factual accuracy, however, has been identified as a significant drawback. Following the release of ChatGPT, OpenAI's valuation was estimated at US\$29 billion in 2023.

Keywords: ChatGPT, Artificial Intelligence, Revolutionary, Chatbot, Stroganoff, UNIFESP, Machado Dias, RLHF, Sam Altman, Programming code, relevance, reinforcement, digital security, threat.

1. Introduction

The football final in Qatar on November 30, 2022 was in full swing, while the tech world was taking a revolutionary step in the field of artificial intelligence. That is the step - ChatGPT. This new system can generate written text and that too is highly consistent. Reading the text, one wonders whether any human wrote it, so precise and accurate. This new system still has errors and shortcomings. However, the system has generated a mixture of curiosity and fear around the world. Many people associate ChatGPT with the word 'threat'. According to a New York Times article, this new system is expected to create major problems in areas such as creativity, education, work, digital security and democracy. According to the authors, what was once an opinion expressed by a person may now be an artificially generated argument robot.



2. What exactly is the ChatGPT system?

ChatGPT is basically a virtual robot (chatbot), which answers various questions, performs typing tasks, communicates fluently and also advises on personal problems. For example, he can teach you how to make stroganoff. Also, can advise you on getting a job, writing poetry, writing academic papers. One can even suggest writing a letter to a friend who has drifted away from you. According to SEO.ai's tests, ChatGPT is available in almost 100 languages. However, the performance of this model varies by language. So far it has been seen that it works best in English. ChatGPT was developed by OpenAI, a company founded in 2015 by Sam Altman and Elon Musk. However, in 2018, Elon Musk decided to leave the company citing conflict of interest with Tesla. So Sam Altman is the head of this company now. ChatGPT reached millions of users within five days of its launch. According to the OpenAI company, "Usage during the testing and research phase will be free and open to all. The company cautions that ChatGPT may occasionally

generate inaccurate or misleading information. Because her data history is limited to 2021. This new system poses a direct threat to Google's dominance. However, it should be noted that this system still makes some serious mistakes.

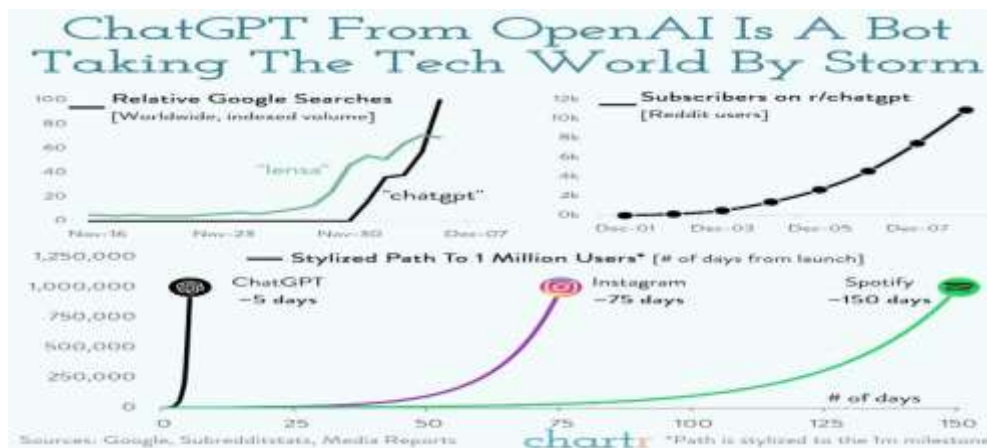
For example, Brazil has won five Oscars so far, according to ChatGPT. None actually won.

3. Why is ChatGPT considered revolutionary in the field of artificial intelligence?

The best text-based AI programs store huge amounts of data, then use algorithms to predict the best phrasing of a sentence. These are called Large Language Models (LLMs). Alvaro Machado Díaz, a neuroscientist and professor at UNIFESP, says that during software training, the chatbot is asked questions and gives detailed answers. "If the chatbot's response is wrong, the correct answer is fed into the system and it gives the correct answer next time." ChatGPT has learned to speak almost human-like. Machado Dias says that what makes this system unique is that it works by understanding the technical side of how language works. The system learns through human response (RLHF). Engineers use 'feedback' and 'learning' methods to teach the system. This shows the interaction very well. This is a great 'tuning' process.

"In reality, engineers prioritize the responses given by the algorithm according to their relevance and encourage the program to learn the priorities set to increase the relevance of the text output," says the UNIFESP professor. ChatGPTs are trained to admit mistakes, challenge false assumptions, and reject inappropriate requests. But a University of California professor got a system to write programming code that only white or Asian men make good scientists. OpenAI says that despite its best efforts, the system can sometimes provide problematic suggestions. However, the data collected during the testing phase will be used to further enhance the system.

4. Number of users of ChatGPT



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