

29. HOW CHATGPT AFFECTS OUR LIVES

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The paper provides insights into ChatGPT working as artificial intelligence as well as into the areas where it is used and will be.

In the contemporary digital epoch, technological advancement proceeds at an exponential rate. Within this landscape of innovation, artificial intelligence (AI) emerges as a paramount achievement. This assertion finds validation in the form of Chat Generative Pre-trained Transformer (ChatGPT), a neural network which has garnered substantial popularity. According to available sources, this notable neural network was introduced into the domain by the esteemed US-based technology company known as Open IA on November 30, 2022.



Picture 1 - OpenIA company logo

For human users, ChatGPT represents a novel and facile mode of interfacing with computational systems. Leveraging machine learning methodologies, this chatbot has undergone extensive training utilizing copious volumes of internet-derived data. Remarkably, ChatGPT exhibits rapid response rates to user inquiries, typically within mere seconds. Moreover, whether confronted with rudimentary queries such as date inquiries or complex requests involving programmatic tasks, ChatGPT consistently delivers swift and accurate responses [1]. These commendable feats owe themselves to advancements in technological infrastructure, python-based libraries tailored for AI applications, and the diligent efforts of proficient software engineers.

Presently, the ChatGPT ecosystem hosts an array of chatbots designed to cater to diverse domains such as education, healthcare, finance, and software development [2]. Each instantiation serves a distinct purpose, engineered to address specific challenges endemic to its respective field.

Within the healthcare sector, ChatGPT assumes a multifaceted role, aiding both patients and medical practitioners. Virtual health assistants driven by ChatGPT engage with patients to disseminate basic medical information, facilitate appointment scheduling, and furnish medication reminders. Additionally, ChatGPT contributes to the professional sphere by parsing medical literature, thereby assisting healthcare providers in staying abreast of pertinent developments.

In the realm of finance and banking, ChatGPT augments customer engagement and financial service delivery. Virtual banking assistants empowered by ChatGPT offer patrons insights into transaction histories, proffer basic financial guidance, and conduct analyses of financial data to discern patterns. By furnishing tailored recommendations and guidance, ChatGPT bolsters financial literacy and empowers users to make informed decisions.

Education benefits immensely from ChatGPT's capabilities, as it facilitates personalized learning experiences and academic support. Functioning as a virtual tutor, ChatGPT elucidates concepts, addresses queries, and supplies supplemental learning materials across diverse subjects and educational levels. Furthermore, ChatGPT aids in language acquisition through conversational practice, vocabulary expansion, and grammatical correction, thereby enabling continuous learning opportunities outside conventional classroom settings.

In the domain of software development, ChatGPT serves as a valuable ally by generating code snippets, completing code segments, and crafting clear and concise documentation. Moreover, it assists in identifying optimization opportunities, suggesting code refactoring, and highlighting areas for improvement, thereby facilitating the production of cleaner and more maintainable codebases.

References:

1. *What Is ChatGPT? Everything You Need to Know.* [Electronic resource]. – Mode of access: <https://www.techtargget.com/whatis/definition/ChatGPT>. Date of access: 22.03.2024.
2. *The Impact of ChatGPT on Society and its Implications for Different Industries* [Electronic resource]. – Mode of access: <https://yalla.deals/blog/the-impact-of-chatgpt-on-society-and-its-implications-for-different-industries/241>. Date of access: 21.03.2024.