

## Role of Chat GPT in Education

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**Abstract**

*ChatGPT, a powerful language model from OpenAI, reached 1 million users in just 5 days. Other popular platforms like Facebook, Netflix, Instagram, and Twitter took much longer to reach this number, with 300, 1200, 75, and 720 days respectively. With its ability to generate writing that closely mimics human language and its capacity for multiple ongoing conversations, ChatGPT is a versatile tool that can aid in open education by providing personalized support, direction, and feedback to autodidactic learners, thus increasing motivation and engagement. The author acknowledges asking chatGPT questions regarding its uses for education. Some of the uses that it states are possible now and some are potentials for the future. The author has analyzed and edited the replies of chat GPT.*

**Keywords:** Chat GPT, GPT-3, OpenAI, NLP, Open Education, Autodidactic

**Background**

The digital age demands individuals who are self-motivated, resourceful and able to take charge of their own learning process. Employers are seeking candidates with these qualities as they are better equipped to adapt to the ever-changing digital landscape. Autodidactic learning, also known as self-directed learning, is the process of learning independently, without the guidance of a teacher or instructor. This type of learning requires the learner to be autonomous and independent, often utilizing open educational resources and practices. By taking control of their own learning and development, individuals are able to learn at their own pace and tailor their education to their personal needs and goals.

Chat GPT, a recent AI innovation by Open AI that quickly gained 1 million users [1], holds potential for improving self-directed learning. Examining Chat GPT's ability to aid autodidactic learning is important for understanding how to best utilize chatbots and AI in education, and for guiding the future of education and technology-assisted learning. By understanding how Chat GPT can support independent study, educators and students can use these technologies to enhance their own learning and development. Additionally, this research can inform policy decisions on incorporating these technologies into educational settings.

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**Capabilities of chat GPT**

Chat GPT, a chatbot, utilizes the GPT-3 language model to

generate responses to user input. GPT-3, which stands for Generative Pre-trained Transformer 3, is a powerful language model developed by OpenAI, that has 175 billion parameters and is trained on a vast amount of data [2]. By utilizing GPT-3's capabilities, Chat GPT is able to produce conversational and natural responses to user input.

ChatGPT's ability to understand and respond to natural language input is a key feature. It uses NLP to analyze user input and provide relevant responses, allowing for a conversational experience that feels natural and intuitive. Additionally, ChatGPT's ability to provide personalized and interactive assistance is important, as it can adjust its responses based on user input and offer tailored recommendations. For example, it can make personalized recommendations for educational products and resources based on a user's learning goals and preferences.

ChatGPT is implemented as a chatbot that can be accessed through various platforms such as a website, smartphone app or messaging service. Users can interact with it via text or voice, and it will respond in real-time. It is designed to handle multiple concurrent chats with different users. The technology behind ChatGPT is the GPT-3 language model, which enables it to provide tailored and interactive assistance to users in a conversational and natural manner. It can be a useful tool for self-directed learners, as it can understand natural language input and provide personalized recommendations and assistance.

**How chat GPT can change learning**

Artificial intelligence (AI) tools like ChatGPT have the potential to revolutionize education and the way students approach their

studies. Research has shown that AI-based technology can improve learning outcomes and motivation [3]. AI-based tutoring programs can enhance student performance and motivation in educational environments [4]. ChatGPT, specifically, by providing tailored and interactive assistance, can enhance the learning experience and increase student engagement in online courses. Its ability to offer personalized and interactive help can also support self-directed learners in developing independence and self-study skills.

ChatGPT's ability to provide personalized and interactive assistance that is tailored to each learner's needs and preferences can not only promote autonomy but also enhance the learning experience. For example, it can provide personalized recommendations for reading materials and other resources, or interactive tasks and activities that align with individual student's needs and learning goals. Currently, ChatGPT has various applications for self-directed learners.

ChatGPT can help in education in a number of ways. Some examples include:

1. Tutoring and assistance: ChatGPT can provide personalized assistance to students, helping them with their coursework and answering any questions they may have.
2. Research assistance: ChatGPT can assist students in their research by providing relevant resources, articles and papers based on the research topic
3. Essay and paper reviewing: ChatGPT can assist students in proofreading and editing their essays and papers, providing feedback on grammar, sentence structure, and content.
4. Class scheduling and reminders: ChatGPT can help students with their class schedules, setting reminders for upcoming assignments and tests.
5. Personalized learning: ChatGPT can offer tailored recommendations for learning resources and activities based on students' learning objectives and preferences.
6. Virtual office hours: Professors can use ChatGPT to provide virtual office hours, answering student's questions and providing assistance in real-time.
7. Student engagement: ChatGPT can be used to increase student engagement in online classes, by providing interactive activities and questions that align with the course material.

Chat GPT can be used to enhance the learning experience by providing personalized and interactive support. This includes tailored exercises and games that align with the learner's specific needs, as well as recommendations for learning materials and resources. It can also act as a tutor or mentor, providing feedback and assistance throughout the learning process. Additionally, Chat GPT can assist self-directed learners in creating their own learning objectives and strategies, as well as being used as a tool for self-reflection and evaluation. This can empower learners to take charge of their own learning and growth, and develop the skills necessary for success as self-directed learners.

## Conclusion

In conclusion, Chat GPT is a powerful tool for enhancing the learning experience by providing personalized and interactive support. It can be used to tailor exercises and games to align

with the learner's specific needs, as well as recommend learning materials and resources. Additionally, Chat GPT can act as a tutor or mentor, providing feedback and assistance throughout the learning process. It can also assist self-directed learners in creating their own learning objectives and strategies, and be used as a tool for self-reflection and evaluation. This can empower learners to take charge of their own learning and growth, and develop the skills necessary for success as self-directed learners [5]. Overall, Chat GPT has the potential to improve student participation and motivation in online courses and enhance student's performance. However, these are roles stated by chat GPT and although some of them are possible now, some others are potential uses for the future as its database and analytical skills become better.

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## Declarations

### Ethics approval and consent to participate

'Not Applicable'.

### Consent for publication

'Not Applicable'.

### Availability of data and material

Data sharing is not applicable to this article as no datasets were generated or analysed during the current study.

### Competing interests

"The authors declare that they have no competing interests".

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### Authors' contributions

"All authors analyzed, interpreted, read, and approved the final manuscript."

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