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As soon as they were released to the public, AI writing programs like ChatGPT became a hot topic especially in the academic world. Knowing all about how to use AI in writing is important for students and professors alike; AI writing programs are fantastic tools, but it is important to know how to use them without accidentally plagiarizing. Benefits of using AI writing programs include being better able to brainstorm, to overcome \_\_\_\_\_ and to learn more about writing itself. However, while AI can be an excellent tool, it also presents various challenges.

ChatGPT and AI writing programs are large language models (LLMs). A large language model is an algorithm that is trained on a large amount of data (in this case, written information available on the internet) and then uses what it has gathered to turn it into something new.

Most people refer to ChatGPT to refer to all AI writing programs. However, it is important to note that ChatGPT is the name of a singular program developed by the company OpenAI it does not refer to AI writing programs as a whole. This is similar to \_\_\_\_\_ engine.

ChatGPT and other AI writing programs do not search the web for information; they only generate writing using information that that they have been trained on their training includes real information, comment sections, and even conspiracy theories.

AI writing programs are LLMs, not search engines. They do not give you information from a single reliable source they give you a mash-up of information that they are trained on, both reliable and unreliable. As of 2023, they are unable to sort truth from fiction. When you ask AI writing programs a question, they give you one answer back. You are not able to validate the source or find other webpages. To do so, you need to use a search engine.

ChatGPT and other AI writing programs are known to hallucinate. This means that they can sometimes invent examples and get facts wrong even basic ones. ChatGPT in particular has a problem with inventing sources; if it is asked to write a research paper and cite its sources, it is possible that it will make up websites and journal articles that sound legitimate but are actually bogus. This was a significant problem after \_\_\_\_\_ -related hallucinations are becoming rarer, and AI writing tools will only become better as time progresses.

There are some documented hallucinations that have been not only false but downright harmful.



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