- Artificial Intelligence (AI)

ChatGPT-Based Tools that can Boost Research Productivity

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If you are a researcher, you may be overwhelmed by the millions of AI tools being launched every day. Do you know that there are diverse and very popular ChatGPTbased tools that are contributing to research in various domains? Let's get familiar with some of them.

Table 1: GPT tools to carry out effective literature search

Name	Features	Function	URL
ResearchGPT	Research-oriented language model	An AI-powered assistant that can search millions of academic papers to provide science-based answers	https://www.researchgpt.com/
Academic Research Reviewer	Reviewing and evaluating academic research	Offers a comprehensive review of research papers providing suggestions for improvement	https://chat.openai.com/g/g-YgkKaPZNm-academic-research-reviewer
Literature Review GPT	Specialised in generating literature reviews	Provides a user-friendly guide for conducting academic literature reviews on specific research topics	https://chat.openai.com/g/g-VtGdv9Ulz-literature-review-gpt
ChatPaper	Focuses on conversational writing	Specialised in summarising academic papers, particularly in the medical and scientific research fields	https://chatpaper.com/
ScholarAI	Academic writing and research assistance	Assists in navigating a corpus of over a million articles, journals, and books, acting as a research assistant	https://scholarai.com/
Quick Writing Academic's Papers	Rapid academic paper drafting	Aids users in progressively deepening answers when writing academic papers	https://quickwritingacademicspapers.com/
Academic Analyzer	Analysing academic papers and data	Analyses academic articles by summarising research topics, methods, and conclusions	https://chat.openai.com/
Academic Paper Specialist	Specialised in academic paper writing	Assists in academic writing and editing	https://chat.openai.com/g/g-jryw3pfsH-academic-paper-specialist
Auto Expert (Academic)	Expertise in academic writing and research	An expert in scholarly paper analysis and educational research assistance	https://chat.openai.com/g/g-YAgNxPJEq-autoexpert-academic
AI Paper Polisher Pro	Advanced AI for refining academic papers	A professional assistant for polishing AI academic papers	https://chat.openai.com/g/g-VX52lRD3r-ai-paper-polisher-pro

OpenAI launched ChatGPT in late November 2022, based on the generative pre-trained transformer (GPT) architecture. This AI chatbot tool excels in understanding natural language, allowing researchers to interact with it conversationally.

This capability makes it easier for researchers to communicate their ideas, ask questions, and receive nuanced responses from the AI tool. Furthermore, ChatGPT can also generate coherent and contextually relevant text, making it useful for summarising, paraphrasing, and creative writing tasks. Researchers can leverage this feature to quickly create summaries of research papers, rephrase complex concepts, or generate content for publications. Figure 1 shows the application of ChatGPT, right from research conception to publishing.

Furthermore, ChatGPT's advanced natural language processing capabilities, text generation abilities, and versatility make it a valuable asset for researchers seeking to enhance their productivity and explore new avenues in their research. Figure 2 depicts the potential benefits of using ChatGPT for research.

Popular GPT tools for effective literature search

In the ever-expanding landscape of academic research, the need for efficient and effective literature search tools has become paramount. These tools streamline the finding of relevant scholarly articles and papers, and aid in synthesising and analysing the vast amount of information available. In Table 1, we present a curated list of popular GPT tools that represent the forefront of innovation in the literature search for academic research. These tools provide researchers with powerful capabilities to enhance their productivity and the quality of their work.

GPT tools for research data analysis

In research data analysis, the availability of advanced tools leveraging artificial intelligence (AI) and natural language processing (NLP) has revolutionised the way researchers explore and interpret data. These tools offer sophisticated data analysis, statistical testing, and research paper analysis capabilities. Table 2 gives a list of popular GPT tools tailored for research data analysis.