

Research Guide

Artificial Intelligence for Researchers

What is Artificial Intelligence (AI)?

AI is the replication of human intellect and awareness in machines that think, judge, respond, and behave like humans ([Frakenfield, 2022](#)).

[What Is AI? | Artificial Intelligence | What is Artificial Intelligence? | AI In 5 Mins | Simplilearn](#)

AI in Academia

AI is infiltrating many facets of our daily lives, including education, and has the potential to significantly expand and improve teaching and learning in higher education ([Crompton and Song, 2021](#)).

Since generative AI technologies can transform knowledge generation in education, they have caught the attention of academics and raised major concerns regarding their impact on higher education research. These tools¹ can reshape research by opening new avenues for exploration, analysis, and innovation ([Al-Zahran, 2023](#)).

¹Some of the tools require subscription—the use of AI tools for academic research and publishing is the author’s sole discretion.

Subjects: Research, writing, artificial intelligence, academia, education.
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[How AI Could Save \(Not Destroy\) Education by Sal Khan | 15:36 Mins](#)



Literature Review Tools

- [IrisAI](#) is an artificial intelligence tool designed to help understand scientific texts. It can also be used for literature reviews, research data extraction, post-market monitoring, and other laborious tasks.
- [Rayyan](#) is an AI-powered tool designed for systematic literature review. It serves as a collaboration platform that can help academics with systematic reviews, literature reviews, and knowledge synthesis projects.

- [Covidence](#) is a web-based platform designed to streamline the systematic review process in academic research. It provides tools for study screening, data extraction, and risk of bias assessment.
- [SciteAI](#) is a citation index that retrieves and contextualises scientific material through machine learning. It classifies data using a deep learning model and presents the surrounding textual information from the referenced publication.
- [LitMaps](#) is an AI tool designed for literature review. It generates results using a citation network unlike traditional literature review tools which use keywords and references.
- [Consensus](#) is a search engine that uses artificial intelligence to locates research materials for scientific studies.
- [ResearchRabbitAI](#) is a citation-based literature mapping tool.
- [Elicit](#) summarises a paper's main points related to the query and finds relevant papers. It also includes brainstorming and text categorisation tasks.
- [Scispace](#) is an AI-powered literature review tool for researchers. It helps users easily search for and understand research papers.

Writing Tools

- [Squibler](#) is a user friendly program designed for authors and writers who wish to finish their projects more quickly.
- [WordTune](#) is an AI-powered writing tool designed to help users improve the quality and clarity of their written content.
- [WriteFull](#) provides writers and copy editors with big data insights and AI-powered language feedback to help them write better.
- [PaperPal](#) is an AI academic writing tool. It checks for plagiarism, grammar and can help improve writing speed and quality.
- [ProwritingAid](#) is an online writing and editing tool that assists writers in improving grammar, spelling, style, and overall writing quality.
- [TrinkaAI](#) is an online grammar checker and language correction AI tool for academic and technical writing.

Presentation Tools

- [Piktochart](#) is an AI-powered tool that allows users to create professional-quality infographics using themed templates, even if they do not have extensive graphic

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design

knowledge.

- [Gamma App](#) is a platform that uses artificial intelligence to quickly and easily produce professional documents, presentations, and web pages.

AI Search Engines

- [Perplexity](#) is an AI-driven search engine and chatbot that combines natural language processing (NLP) and machine learning to provide precise answers to user queries.
- [ChatGPT](#) by OpenAI is a chat assistant that converses naturally, answers questions, generates original material, and solves problems.
- [Gemini](#), formerly known as Bard, is a Google's 2023 AI chatbot designed to compete with ChatGPT. Similar to ChatGPT, it can answer queries and assist with creative projects.
- [Bing](#) is an artificial intelligence assistant that is integrated into the Bing search platform, designed to function as a more intelligent search engine.

References:

1. <https://ucsd.libguides.com/ai>
2. <https://libguides.ucalgary.ca/artificialintelligence>

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