

To: Mr. Williams
From: Trista Acker
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Subject: AI Tool Review for My Field

Introduction

The tool category I chose for this assignment is “research”. The tools I chose are Elicit, Scite.ai, and Semantic Scholar. I chose these applications to do research on to better get an understanding of different AI research tools to aid in my future work.

Tool Overview

Each tool is composed of three separate main goals. After typing in your prompt the Elicit tool starts by gathering sources, then, it filters studies based on inclusion criteria. It then extracts the data and captures key metrics and findings from every paper. Lastly, it generates the report. The thing I love about this tool is that not only does it give you multiple different forms of the data you request in the prompt, but it will tell you how many sources were used and you can go look at each individual source if needed. This helps with comparisons and saves time.

For the Scite.ai tool, you type in your prompt and it will generate a report on multiple different sources in relation to your prompt, but it imbeds them into the report with the links to the pages. The report gives many different perspectives with its sources at the end to emphasize its justification for being there in the report. Overall, this tool is great for reference checks and reliability.

Lastly, while Semantic Scholar doesn't create a report for you, it does prove to be a good search engine for academic literature. When you type in a prompt, it results in many different scientific articles relating to your prompt. This provides a much broader database for easy access to scientific knowledge.

Comparative Analysis

The thing that the Elicit tool falls short of is the chat-bot persona being human like when in conversation. Its strengths would definitely be the readability of the information, as it includes summaries, but also tables. The weakness of Scite.ai is the limited aspects of the free trial version, where you only get to do so many prompts before you have to pay for it. The strengths would have to be the embedded source links in the report. The weakness for Semantic Scholar is that the resources are found through too many clicks to access the information, one of the main differences is that the information is in PDF format. Which is helpful, but the pathway to accessing it could be shortened.

The most intuitive and efficient one, is Elicit AI, simply because it gives you easy access to the articles it uses to support its generated summary. The most frustrating would have to be Scite.ai

because of the limited usage of the free version. I would definitely say Elicit AI is best for my field because it provides the sources and organized data all on the same page.

Ethical Considerations

For data privacy, Elicit uses their own content and uploaded content stays private by default, while Scite.ai's public content is meta data from publishers. Semantic Scholar's doesn't really involve uploading full papers, but rather just searching and downloading. The AI tools processes are quite clear and can be explained fairly easily. Semantic Scholar uses real academic papers and Elicit just pulls information from them. Scite.ai pulls from trusted publishers and open-access journals. The Elicit tool uses these strategies to their advantage the best because they get their information from Semantic Scholar, therefore, if their information is incorrect, it doesn't seem like they would be liable.

Real World Application

This company uses AI to analyze biological data and identify potential drug targets and compounds. Professionals will have to have a baseline of what it is like to not have the tools available, to better compare and to know what is normal and what isn't.

Recommendation

I would recommend the Elicit AI tool if you are wanting to summarize multiple articles and appreciate when information is easy to scan or if you value being able to check your sources. The ethical guidelines they should implement would be only to tackle things that have already been tedious and difficult to work with, not creating unnecessary steps, things that make the process more efficient, but not taking it over entirely.

Citations

- AI-Powered Research Tool.* Semantic Scholar. (n.d.). <https://www.semanticscholar.org/>
- Atomwise. (n.d.). How we do it.* <https://www.atomwise.com/how-we-do-it/>
- Elicit. (n.d.). The Ai Research assistant.* <https://elicit.com/>
- scite.ai. (n.d.). Your AI Research assistant – scite.* <https://scite.ai/assistant>

AI Disclosure Statement

Used ChatGPT to find three research tools to analyze and to ask about each one's academic integrity.