

Review of: "Towards Responsible AI-Assisted Scholarship: Comparative Assessment of Generative Models and Adoption Recommendations"

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Potential competing interests: No potential competing interests to declare.

Reviewer #1:

In this paper, the authors present a methodology for comparative analysis of different generative models and suggestions for their implementation and move towards responsible use of AI in academic research. The topic is quite interesting, and the paper includes most of the information required in order to understand the used methodology. However, at some points, the paper feels like it is missing important information. The comments are as follows:

1. The Related Work section is quite brief; thus, it needs to be improved by having a better structure and being augmented with a summary of the referred works that are easier to read and highlight the most significant distinctions to the submission.
2. The Key Research Gaps are not properly justified. It is necessary to define and justify the research gap ambiguously.
3. The research methodology section included the *mixed-methods approach combining comparative prompting experiments with quantitative scoring, qualitative analysis, and human benchmarking to evaluate four leading generative AI systems* but how these methods are responsible and evaluate the performance of the AI system should be clearly mentioned in this section.
4. The Data analysis section is quite impressive, but it needs some modification in the Statistical Analysis section for the analysis of ANOVA techniques. The authors should provide one case study related to the ANOVA technique and how it is useful for this research work.
5. While the level of English in the submission is not bad, it would be good if a final round of polishing was applied, preferably by a native speaker.