

EDITORIAL

ARTIFICIAL INTELLIGENCE IN ARTICLE WRITING

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Article writing is an essential component of research, characterized by structured expression of ideas, data-driven arguments, and logical reasoning. However, it poses challenges such as handling vast amounts of information and complex ideas. The integration of Artificial Intelligence (AI) into Article writing has become increasingly important, offering solutions to these challenges.¹ Article writing can be challenging, with difficulties varying depending on the writer and the field. Article texts must meet high standards of accuracy, evidence, and logical structure. Every statement must be backed by credible evidence.^{2,3} AI-powered writing assistants help with grammar, structure, citations, and adherence to disciplinary standards. These tools are not just helpful but central to improving the efficiency and quality of academic writing. They enable writers to focus on the critical and innovative aspects of their research.⁴

Artificial intelligence has transformed everything from education to healthcare. With innovations booming at breakneck speed, the demand for artificial intelligence research papers is skyrocketing. As a result, medical journals are flooded with AI-focused submissions, making it a hotbed for academic research. An artificial intelligence research paper is a scholarly document that presents original findings, theories, or applications related to AI technologies. It can fall into three broad categories: theoretical (focused on algorithms or models), experimental (involving tests or simulations), and application-based (showcasing real-world AI solutions in industries like healthcare or automation).⁵

The most important and initial step in creating a good research paper in AI is choosing a good topic. One should look for problems not solved at all or where solution would yield concrete benefits. A good literature review is the basis of any quality research paper. This can be done from Google scholar, research gate or Scopus etc. The next step is to pinpoint an exact research problem. This should be a specific, measurable, and relevant issue that any paper aims to solve. Ensure that, the problem ties directly into the gaps identified in a literature review. The next step after having resolved what issue one wish to address, is defining how that are to do it. This involves choosing an AI methodology and tools for deployment. Python (Most widely used language to build AI), TensorFlow / Keras (to train and create deep learning models), MATLAB (Best utilized for simulations and numerical computation), Scikit-learn (Convenient for traditional ML algorithms), Jupyter Notebooks (For code writing and sharing with rich text artifacts), OpenCV (For real-time computer vision application).⁶

Having selected methodology, the next step is to act. This involves writing and conducting experiments to validate a hypothesis. Once results are acquired, interpret them reasonably. A good AI project will not impress unless it is well presented. Manuscript writing should show clarity, reasonableness, and academic organization. Use the formal research publication guidelines as a checklist. The usual format is, Abstract (Brief summary of a research), Introduction (Background, problem description, and objectives), Methodology (Detailed explanation

KEY WORDS: Article; Artificial intelligence; Data; Medical journals; Publication; Research; Writing.

Cite as: Khan MA, Khan MK, Khan MS. Artificial intelligence in article writing. Gomal J Med Sci 2025 Oct-Dec;23(4) Suppl:463-4. <https://doi.org/1046903/gjms/23.4.Suppl.2279>

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Date Submitted: 04-09-2025

Date Revised: 10-12-2025

Date Accepted: 24-12-2025

of models, tools, and methods), Results (Tables, figures, and metrics to present findings), Discussion (Interpreting results and comparison with prior work), Conclusion (Final words, restrictions, and further research), References (Accurate citations in IEEE/APA/MLA style). The final step is to make research available to the world by choosing right journals. Publication in the proper journals provides your research with visibility and credibility that it can leverage. Choose Scopus-indexed or SCI-indexed

journals for maximum visibility. Verify that the scope of the journal matches the topic. Consider the impact factor, review times, and author policies.⁷

REFERENCES

1. Khalifa M, Albadawy M. Using artificial intelligence in academic writing and research: an essential productivity tool. *Comput Methods Programs Biomed Update*. 2024;5:100145. <https://doi.org/10.1016/j.cmpbup.2024.100145>
2. Birjali M, Kasri M, Beni-Hssane A. A comprehensive survey on sentiment analysis: approaches, challenges and trends. *Knowl Based Syst*. 2021;226:107134. <https://doi.org/10.1016/j.knsys.2021.107134>
3. Gupta S. Academic writing challenges and supports: perspectives of international doctoral students and their supervisors. *Front Educ*. 2022;7:Article 873. <https://doi.org/10.3389/educ.2022.873>
4. Golan R. Artificial intelligence in academic writing: a paradigm-shifting technological advance. *Nat Rev Urol*. 2023;20(1):1–2. <https://doi.org/10.1038/s41585-022-00656-7>
5. Dergaa I. From human writing to artificial intelligence generated text: examining the prospects and potential threats of ChatGPT in academic writing. *Biol Sport*. 2023;40(2):615–22. <https://doi.org/10.5114/biolSport.2023.118512>
6. Alshater M. Exploring the role of artificial intelligence in enhancing academic performance: a case study of ChatGPT. *SSRN [Preprint]*. 2022. <https://doi.org/10.2139/ssrn.4276806>
7. Giglio A, Costa M. The use of artificial intelligence to improve the scientific writing of non-native English speakers. *Rev Assoc Med Bras*. 2023;69(9):e20230560. <https://doi.org/10.1590/1806-9282.20230560>

CONFLICT OF INTEREST

Authors declare no conflict of interest.
GRANT SUPPORT AND FINANCIAL DISCLOSURE
None declared.

AUTHORS' CONTRIBUTION

The following authors have made substantial contributions to the manuscript as under:

Conception or Design:	MAK, MKK
Acquisition, Analysis or Interpretation of Data:	MAK, MKK, MSK
Manuscript Writing & Approval:	MAK, MKK, MSK

All the authors agree to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.



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