

Role of Generative AI in Academic Writing – A Boon or a Threat?

Harsh Shukla*¹

¹Research Scholar, Department of B.Ed./M.Ed. (IASE), MJPRU Bareilly, U.P., India

*Corresponding Author: harsh.shukla.bh@gmail.com

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ABSTRACT

The rapid evolution of Generative Artificial Intelligence (GenAI) has dramatized the academic writing landscape, where different issues for pedagogical, ethical, and practical spheres are confronted. After a thorough investigation of the matter, the article explains how GenAI could positively influence the academic world as it provides students with a quicker writing process, assists students from non-native language backgrounds, encourages creative thinking, and broadens academic inclusiveness. On the other hand, it is a debate that, to some extent, problems of academic honesty, plagiarism risks, vague authorship notions, cognitive offloading, ethical areas, and the disparity of the advanced AI tools access are the issues that have been raised. This article does not consider GenAI as a good or bad thing, but rather the consequences of this technology depend on users who are knowledgeable and well-governed by institutions. The paper concludes with the thought that the responsible use of GenAI enabled by clear policy provisions, wide AI literacy, and assessment reforms compatible with ethics being not only the main condition for the survival of the fundamental tenets of academic integrity but also the core prerequisite for allowing real academic practice innovation.

Keywords: Artificial Intelligence, Generative AI, Academic Writing, Academic Integrity, AI Ethics, Higher Education

INTRODUCTION

The rise of GenAI is a big deal not only globally, but also changes the face of academic writing and many more fields. GenAI powered by next-generation language models, is an innovative tech, which in a very user-friendly way can create a practically new text from just one user prompt preserving the same line of thought. This is a big step in the academic writing process like the generation of new ideas, making a draft, or editing. At the same time, though, it brings a huge amount of complicated problems that are in dire need of a critical check.

Within the scope of educational institutions, there are numerous advantages of introducing GenAI devices in writing. They can help to make the beginning of a text smoother, clarify the ideas in one's mind and amend the writing with a greater appeal and professional touch. GenAI can supply language and structural support to the students and researchers that clarifies not only the content but also the connection of ideas in their texts. Moreover, it can foster the academic community to become much more equitable, whereby people with language barriers or writing difficulties will get the same level of assistance.

On the other side, the integration of GenAI in schools and universities community poses some issues. As the occurrence of its application is becoming a daily practice, this situation leads to critical questions about the character, the source, and the development of the necessary skills where especially critical thinking and independent analysis are taken into consideration. The straightforward manner in which GenAI does the writing tasks might result in a situation where the tool is overused thus students disengaging from the learning activities and even academic integrity violations may happen. In essence, GenAI goes beyond the bounds of its functionality. For instance, it questions the age-old idea of a scholar, which results in educators, institutions, and policymakers not only reconsidering the way academic work is done but also how it is evaluated and credited. One side of the story is that GenAI can be a tool that leads to freely

available academic support for everyone, while the other side is that if used uncarefully, it can still be a silent trap of superficially going through the content and faking the engagement.

This research-article aims to augment the ongoing debate regarding the role of AI in education and research. Its main goal is to look into the bright sides and the ethical, teaching, and practical issues of GenAI presence in academic writing. By discussing these issues, the paper is meant to provide arguments and research outcomes that can be a source of institutional policies development as well as the means of carrying out the GenAI tools' usage not only in a responsible way but also in a fair and efficient manner in tertiary education. In fact, the ultimate purpose of such inventions is not to remove the core intellectual growth but to make it easier.

RESEARCH QUESTIONS

This research paper is the exploration of the Generative AI role in academic writing, ascertaining whether it is a source of help or a threatening agent to the academic community. We will, in fact, confirm the presence of the following research questions:

1. How can the use of generative AI to facilitate academic writing create positive impacts in the learning process and research activities?
2. What are the major issues/concerns and the possible ethical dilemmas that could be raised if GenAI tools were used in academic writing?
3. What measures can academic institutions take to keep a harmony between innovation and honesty as they progressively allow the use of GenAI for writing?

We interrogate these questions to present an exhaustive treatise on the influence of GenAI on academic writing, tipping the scale on its bright side as well as pointing out the issues that it raises.

LITERATURE REVIEW

Generative AI has become a powerful tool in academic writing that can bring a lot of benefits to students and researchers. For students, generative AI promotes personalized learning, as it is able to identify the learner's style and thus provide a better educational experience (Gasaymeh et al., 2024). Also, it is a multifunctional writing assistant, a virtual tutor, and a digital peer, which apart from facilitating the writing process and enhancing the writing performance, also, is very helpful in the affective domain (Kim et al., 2024). Students view generative AI as a tool for coming up with new ideas, elevating the level of innovation, and changing the ways of teaching so that the different learning preferences can be taken into account (Gasaymeh et al., 2024; Alali et al., 2024).

Generative AI is an extremely powerful instrument that can be used by researchers to significantly improve their writing productivity and quality. The technology offers very detailed help in the areas of writing, revising, and organization, thus, it removes the obstacles that are inherent in academic writing, makes the writing process a discovery, and at the same time, it encourages diversity in research (Lin, 2023). The AI tools in question are especially good at the preparation of structured abstracts and manuscript sections, thus, facilitating the whole process and time-saving (Shopovski, 2024). In addition to that, AI-powered tools such as ChatGPT can be used in discovering the relevant literature and summarizing the research, thus, helping make the academic writing more clear and focused (Semrl et al., 2023).

They should also be prepared for the fact that AI might raise some issues. However, on a few occasions, these devices can also produce misleading or entirely made-up content or citations, so there is a need for strict oversight to be able to maintain a high level of integrity and trust in the academic community (Semrl et al., 2023; Gasaymeh et al., 2024). In fact, the main point of disclosing the usage of AI is to uphold the ethical standards and facilitate the peer-review process (Tang et al., 2023). Therefore, the use of generative AI for academic purposes

combined with the thoughtful, ethical intervention of humans could not only be a powerful educational tool but also a valuable research partner (Kong et al., 2024; Nguyen et al., 2024). Generative AI (GenAI) tools have been implemented in academic writing, which has led to the emergence of a wide range of ethical issues and concerns related to this practice. One of the most prominent issues that integrity in academia could be is. The technologies in question are definitely able to plagiarize as well as fabricate instances of academic misconduct because AI-generated papers may not have the correct citations thus, copyright and originality issues may be the ones that will arise (Taiye et al., 2024; Kim, 2024; Rabbianty et al., 2023; Eke, 2023).

The issues of authorship and the trustworthiness of academic works are among the topics that have been discussed. In particular, AI technologies can make the identification of the author to be less clear. As a result, the problem of how to keep the academic nature of the contributions arises. The case is about setting up strict rules under which AI is not allowed to take over the intellectual work of human authors (Rabbianty et al., 2023). Besides, problems related to equity and access are very serious. The digital divide may increase inequalities that have been around for a long time. For example, some students or institutions may not be able to access advanced AI technologies as others and thus, an academic environment that is unequal will be created (Francis et al., 2025). As to the environmental impact of AI, the issue of huge computational power required for large language models is raised and therefore their carbon footprint is increased. The problem thus requires a careful weighing of the benefits that AI can bring against the environmental costs (Francis et al., 2025).

The implementation of GenAI in a responsible manner within an academic community, first of all, mandates comprehensive ethical considerations and the establishment of regulatory frameworks. In this regard, educational institutions are recommended to carry out AI literacy programs, set up a code of conduct for the use of technology, and change assessment formats to encourage students' critical thinking and creativity. The measures mentioned above are not only the conditions for the fullest use of GenAI's potential but also they are necessary for academic integrity to exist and inclusivity to be facilitated in education (Taiye et al., 2024; Uddin and Abu, 2024).

Educational institutions should be leaders in taking several decisive steps to ensure that the use of Generative AI (GenAI) in writing and other educational activities is both creative and preserves integrity. The first and foremost concern ought to be the creation of ethical frameworks and policies that dictate the application of GenAI. Apart from aiding the preservation of academic integrity, these frameworks are expected to be very helpful in ensuring that the educational values such as fairness, among others, are upheld. Universities and colleges will then have the opportunity to not only implement these policies and thus set the standards that determine the proper use of GenAI but also, for example, by using characteristics such as equity, inclusion, and accountability as the pillars of the practice (Francis et al., 2025; Folynek et al., 2023). Through its directives, the European Network for Academic Integrity (ENAI), is already making substantial moves towards equipping the concerned parties with the skills and the knowledge necessary for the ethical use of GenAI (Folynek et al., 2023). Next, schools should prioritize the creation of GenAI literacy programs tailored specifically for students and teachers to meet their needs. The programs must also disclose the correct usage of GenAI functionalities and, importantly, disclose its limitations while at the same time imparting critical AI literacy skills. This method will enable all the participants in the educational process to not only accept without question AI-generated outcomes but also to critically evaluate and even question them. As a result, the educational community will be promoting not only AI literacy but also the empowerment of students and teachers to be able to use AI in a responsible and creative way (Taiye et al., 2024; Rudolph et al., 2024).

It is extremely important to amend the examination plans radically so that they effectively demonstrate critical thinking and creativity as their leading features. Educational institutions, by simply eliminating mundane tasks from tests and implementing assessment methods that challenge students to deepen their engagement with both the material and AI tools, can be assured that AI serves as a potential enhancer of human capabilities rather than a replacer (Francis et al., 2025). At the same time, it shows the necessity of pedagogical strategies' development, which encourages the collaboration of humans and AI, at the same time, students' creativity and freedom of expression being preserved (Info and Potter, 2024; Kim et al., 2024). Furthermore, teacher-student communication and the collaboration with other stakeholders can be the main reasons for the fast propagation of GenAI-appointed learning practices. By involving the numerous stakeholder perspectives not only in the designing but also in the implementation of GenAI programs, understanding, and academic integrity issues as well as operational difficulties can be addressed effectively, thus resulting in both efficient and ethically acceptable tools (Foltynek et al., 2023; Taiye et al., 2024). Besides that, organizations should take care of ethical issues that are far beyond the risks of biases in AI systems, possible digital divides, and the environmental impact of AI technologies. These factors need to be constantly taken into account to ensure that GenAI integration does not deepen the existing inequalities and also that no new biases are introduced in educational practices (Francis et al., 2025; Blonder and Feldman-Maggor, 2024).

GENERATIVE AI AS A BOON

Generative AI or GenAI for short, is, without a doubt, one of the major technological advancements that surfaced within the last few years. Its application in academic writing is very far from the traditional way and accordingly, students, researchers, and educators are not only finding new ways to produce but also to share knowledge. Though the argument that GenAI might be used improperly is still alive, it is quite significant to acknowledge that GenAI exerts a lot of positive influences as well. If you like, just one of them, it raises the standard of the work, it is different kinds of people, who had never thought of that, now can be involved and academic resources become equally accessible to all. The next bullet points serve as examples of how GenAI continues to reshape academic writing and related fields in a gradual manner:

- **Enhanced productivity:** Generative AI changes the writing process to a great extent by providing various intelligent suggestions, content outlines, paraphrasing, summarization, and grammar checking. So, it helps users not only in coming up with new ideas but also in writing the content and even polishing the argument. The handing over of such work which was traditionally done by hand to a machine makes it less time-consuming and thus, researchers' and students' time is freed to be able to engage in critical thinking, originality, and conceptual clarity. Consequently, the output achieved is of both larger volume and better quality, which, especially, is of great significance in academic environments under time pressure.
- **Support for Non-Native English Speakers:** Language proficiency is still a significant barrier that hinders academic writing. Out of different generative AI tools, ChatGPT, Grammarly, and Trinka are three such applications that can enhance the language proficiency of a non-native English speaker, which a person will be able to break the barrier thereby. Besides error correction, the instruments also offer corrections that sound not only more scholarly and contextually appropriate but also more effective in the writers' communication of their ideas. Hence these writers get to be not only more articulate but also more able to compete in the global academic arena.
- **Academic Assistance and Creativity:** Generative AI can be turned into a student's and a scholar's brainpower and alongside them can facilitate ideation, generation of thesis

statements, sharpening of arguments, and provision of citations. Besides this, the technology can be a great creative helper as it can suggest different viewpoints, give ideas from various disciplines and come up with new metaphors. In essence, creative capabilities that AI has opened for the sphere of academic writing, in reality, make it the next step in the evolution of artistic thought in general, i.e., behind the scenes, AI becomes an indispensable agent in the confidentiality of the faculty of ideas and the furtherance of academic research.

- **Improved Access to Knowledge Resources:** In-depth content presentation, briefings and thematic analysis from large scientific and research repositories irrespective of the time needed - all this is now possible due to AI-powered instruments that can fast-track 'access to knowledge' agenda to meet the needs of students from educationally and infrastructurally deprived backgrounds or geographies. The spread of such a trend also brings in scholarly material a broad audience of learners and researchers with whom otherwise deep engagement with academic discourse would be impossible.
- **Facilitating Academic Inclusivity:** For instance, generative AI could be incredibly effective in facilitating a culture of education that values diversity and is inclusive just by providing different ways of learning and catering to the various needs of individuals. Students who cannot easily understand a concept or have trouble due to language-based issues might, through this technology, not only become better in academic writing but also increase their learning self-confidence. This new tool is like a leveling device which expands the repertoire of the academic community, the people who would have been the least visible, hence giving them a chance to engage in the discussion with the necessary skills and the confidence.

GENERATIVE AI AS A THREAT

Generative AI, from one view, can enhance academic works in many ways; however, such a technological device is connected with a large number of worries. As educational establishments try to keep honesty and improve the quality of education, they begin to doubt the positive aspect of Generative AI only. The points below demonstrate that the misuse or unawareness of Generative AI not only can be a threat to the quality of academic writing but also to the educational ecosystem that is going to develop further:

- **Academic Dishonesty and Plagiarism:** One of the biggest causes that led to worries about the honesty of education was the invention of generative AI that could write whole papers, works, or research falsified by machines but still look original. In the case of a student, an AI-generated text could be the student's own work which he/she submits to the teacher. The closeness of the AI-assisted plagiarism is the reason why it is very difficult to uphold academic standards and to spot academic dishonesty.
- **Erosion of Critical Thinking:** Without proper use of AI technologies and tools, there can be a decrease in the level of intelligence. For instance, if a student repeatedly uses AI to generate ideas, analyze and draw conclusions, then that student is less likely to develop critical thinking skills and will find it difficult to solve problems independently. In addition, there is a risk that the creative and reflective aspects of academic writing, which are the main means of the students' intellectual growth and therefore less cognitive engagement is occurring, may be replaced by fast, automated results.
- **Ethical and Legal Dilemmas:** The use of GenAI for research raises a host of tricky ethical questions, including: "Who owns the rights to the GenAI output?" or "Is it ethically correct to use AI to generate academic papers without disclosing it?". There could be a case, for instance, where a research project is based only on some parts of the sources that are biased and, consequently, the trustworthiness of the research is

compromised. The absence of very clear rules and guidelines may lead to a situation of confusion and mistakes, especially in the case of scholarly tests and publications.

- **Lack of Transparency and Accountability:** Generative AI mechanisms are commonly referred to as "black boxes", which indicates that these machines do not show the way they obtain certain results, but only give the results themselves. The lack of explanation in this regard causes issues of checking the source, determining the level of trust, and assigning the responsibility in case of mistakes, wrong information or biased content. When talking about scholarly writing that is highly dependent on giving proper credit and being precise, the insufficiency of the disclosure is among the factors that contribute to the decline of trust in AI-assisted outputs.
- **Institutional Challenges:** The rapid integration of GenAI in the academic world is, unfortunately, the reason that many educational institutions are losing their heads. The root of the trouble is the faculty development deficit, the unestablished policies, and the inadequate technological infrastructure. Simply put, schools and colleges have to deal with the problems of recognizing AI-generated works, changing the content of their subjects, and figuring out fair usage rules. However, the lack of sufficient guidance and control measures may cause the quality of education to become unstable.

A BALANCED PERSPECTIVE

The emergence of generative AI in academic composition has triggered a debate that is a mix of both emotions - excitement and caution. As a matter of fact, it is a great enhancement of productivity and that is exactly the point where students and researchers are in need of help in drafting, editing, and organizing their academic work in a more efficient way. Non-native English speakers are the ones who are mostly benefited by this technology, which gives them the power to present their ideas in a more clear and confident manner.

Generative AI helps the creative process as well as academic research by bringing new viewpoints, generating alternative arguments, and by providing assistance in the ideation process. Besides that, it makes the academic world more accessible through the ability to summarize difficult and long materials which can then be read quickly and easily. Hence, it is an opening to academic inclusiveness for different types of learners. On the other side of the coin, these benefits should be taken into consideration together with concerns of equal weight and consistency. AI's great ability to produce an entire academic paper discloses plagiarism and academic dishonesty as the main problems. It is possible that students will be tempted to avoid the learning process taking the easy way and thus, producing less and doing more fraud. Another problem with such tools is that by overusing them, students lose critical thinking and original thought, as they become more passive consumers of knowledge rather than active creators. What is more, there are ethical and legal questions arising from the issue of content ownership, authorship, and the correctness of the information generated by AI.

Additionally, the transparency problem and the explanation issue in case the units work and generate their answers deepen the accountability problem. Schools have a similar problem with this change as they can hardly adjust their testing structures, invent efficient identification systems, and train instructors and students for the moral use of AI. So, a balanced perspective shows that Generative AI is neither entirely good nor entirely bad. It is a very powerful tool the importance of which depends on the way a responsible and thoughtful use is made. The point should not be made of rejecting AI outright or accepting it uncritically, but rather of its integration into education together with a proper ethical code, digital literacy instruction, and updated institutional regulations. This is the only way we can be sure that AI will be a valuable companion on the academic journey, a cause of enrichment, and not a factor of undermining the pursuit of knowledge.

CONCLUSION

Generative Artificial Intelligence (AI) is one of the most sensational hi-tech breakthroughs to come up in the past decade and has revolutionized the way academic works operate. In this review article, the literature explored, and related issues have shown that GenAI can significantly change the work output of students, researchers, educators, improve language quality, and even increase creativity levels and provide academic knowledge without any limitations. Inarguably, the application of GenAI tools has become a major victory to many learners, especially non-native English speakers and students with a weak academic background, and thus, making academic participation more inclusive and fair.

On the other hand, the fast-paced of GenAI adoption in academic circles has caused worries about maintaining academic integrity, authorship, critical thinking, ethical use, and institution preparedness. To broader the gap between humans and AI, the machine is designed in a way that the AI-generated articles appear to be free of errors and arranged perfectly thus, making it impossible to detect by a human which in turn increases plagiarism, over-dependence, misinformation, and authors' rights as the major issues that accompany the technology in question. The absence of well-defined regulations, ethical principles, AI skills, and strong safeguards provides room for these gadgets to disappoint and diminish the indispensable scholarly values that constitute the nucleus of the education system.

Thus, Generative AI should neither be considered a mere blessing or a threat to academic writing but a powerful instrument whose outcome depends on the degree of responsibility with which it is acknowledged, governed, and used. Some of the initiatives that schools, colleges, and universities need to take leadership and implement under their leadership are ethics, assessment redesign, AI literacy, and the maintenance of the academic environment's fairness and transparency. If GenAI is applied in the right way, it is an excellent tool to supplement human intelligence and accomplish academic tasks at a very fast pace, but at the same time, it can shake the academic foundations if used recklessly. Eventually, the intention is not to impede technological advancement, but to allow it in a manner that is compatible with academic integrity, human creativity, and learning opportunities.

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