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Enhancing Academic Integrity Amidst AI Challenges in Higher Education

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Abstract:

The integration of artificial intelligence (for short, AI) in higher education institutions has raised significant concerns about maintaining academic integrity. This paper thoroughly analyses the evolving dynamics of academic integrity in the new era of AI, addressing both the challenges and ethical implications of AI technologies. It highlights the importance of robust policies, educational initiatives, and collaborative efforts among stakeholders to enhance a culture of integrity within academic communities. The findings emphasize the necessity for a balanced approach that harnesses the power of AI while safeguarding core principles of academic integrity. By contributing to the ongoing discourse on AI in education, this research offers practical recommendations for higher education institutions navigating this complex issue.

**** Kouider MAKHLOUF***

Introduction

The rapid advancements of Artificial Intelligence (hereafter, AI) tools have influenced all spheres of life, and higher education is not an exception. This evolution in technology presents both opportunities and challenges for maintaining academic integrity, a cornerstone of quality education. Academic integrity serves as a fundamental principle that underpins the ethical and moral framework of higher education institutions. It is important to foster a culture of honesty, trust, and fairness, which are essential for the development of competent and ethical professionals. Hence, academic integrity involves a wide range of practices, including honesty in research, adherence to ethical standards, and the prevention of plagiarism, all of which make a big contribution to the reputation of educational institutions. Thus, this multifaceted concept is not only a personal trait but also a systematic requirement for ensuring the quality of education (Baker-Gardner & Eaton, 2025).

AI has profoundly transformed—and continues to rapidly transform—higher education. It offers innovative tools for teaching, learning, assessment, research, and administration, benefiting various educational stakeholders. The educational community has been excited, uncertain, and stressed about potential challenges to academic honesty following the rapid rise and widespread use of Generative AI, especially with the launch of OpenAI's free ChatGPT on November 30th 2022 and the other tools including GitHub Co-pilot, Google Bard, and Bing Chat (Koren & Anders, 2024) and recently DeepSeek. However, these rapid advancements in AI also pose challenges to maintaining academic integrity. While AI-based tools like automated essay scoring and plagiarism detection can enhance academic honesty, they also introduce new avenues for academic misconduct, such as AI-generated content that evades detection . Therefore, it is essential to adopt a balanced approach which optimizes the advantages of AI while addressing and mitigating its drawbacks.

AI technologies represent a revolutionary transformation in the field of Higher Education, opening up new avenues of understanding and fostering interaction between students and educational content. Realizing the full and sustainable benefits of these innovative technologies requires deep thinking and reflection on the ethical dimensions of EdTech, a contraction of the phrase "educational technology". Adhering to ethical practices in designing and using AI applications in the field of education is a necessary step towards achieving inclusive and effective education (Saraya & Sayed, 2023).

The rise of artificial intelligence, especially Generative AI tools like ChatGPT, poses new challenges and ethical considerations for academic integrity, particularly in ensuring the authenticity of student work and preventing plagiarism. Accordingly, it emphasizes the need for explicit guidelines on the ethical application of AI in educational settings to maintain standards of honesty and originality in academic work. Researcher scholars are exploring these issues to address potential risks and ensure that AI tools are used appropriately.

Enhancing a culture of academic integrity in higher education institutions has been encouraged to foster ethical behavior . The academic integrity policy is a cornerstone of such a culture which provides a strong lens to analyze the response of higher education institutions to foster moral decisions while utilizing artificial intelligence tools (Mahmud, 2024b). This discussion is a continual debate with the constant change of landscape as new artificial intelligence tools are emerging and developing over time. This paper is a preliminary look at efforts to foster academic integrity in the era of artificial intelligence and stresses the need for concerted action and further research in this field.

Despite the considerable interest, there is a paucity of scholarly research on the ways AI can promote academic honesty within academic institutions. Hence, the existing gaps in the research highlight the urgent need for conducting this study. Consequently, this paper strives to explore the extensive literature concerning the interplay between academic integrity and artificial intelligence within higher education institutions. The objectives include identifying the dual role of AI as both a tool for promoting and potentially undermining academic integrity and the raised challenges and ethical concerns regarding AI and Academic Integrity as well as developing strategies to mitigate risks while leveraging AI's benefits. To accomplish the study's objectives, this study aims to answer the following research questions :

RQ1: Is Artificial Intelligence a threat or asset to Academic Integrity?
RQ2: What are the challenges and ethical considerations related to AI use in maintaining academic integrity?
RQ 3: What are the strategies for enhancing academic integrity in the age of AI?

The study is significant and relevant to teachers, students, and policymakers, as it provides an in-depth analysis of the ethical use of AI in educational environments. It adds to the ongoing discussion on AI in higher education by

presenting implications for maintaining academic integrity in an AI-driven educational landscape.

Literature Review

Defining Key Terminologies

Reviewing the existing literature, there is no singular or universally-agreed-upon definitions of both of the two key terminologies used in our research paper: *Academic Integrity* and *Artificial Intelligence*.

Academic Integrity

Academic integrity scholars have offered a number of definitions to the concept of *Academic Integrity*. However, a commonly acknowledged definition of academic integrity is " adherence to six core principles: *truthfulness*, *fairness*, *equity*, *respect*, *accountability*, and *bravery*". Similarly, according to the Tertiary Education Quality and Standards Organization of Australia (TEQSA) (2022), academic integrity is defined as " the expectation for teachers, students, researchers and all members of the academic community to act consistently with *honesty*, *trust, fairness, respect* and *responsibility* ". "Academic misconduct" or "academic dishonesty" are alternative terms used to refer to violations of academic integrity. However, integrity is not limited to academic communities; everyone is obliged, at some point or another in their lives, to make noble moral or ethical choices. This obligation may cause stress on the individual, as moral and ethical choices may not always be beneficial and may conflict with personal goals (Al-Amoush & Farhat, 2024).

A student submitting an assignment must ensure that all sources are properly cited to avoid plagiarism. For instance, using direct quotes from journal articles, books, or any other online resources without attribution undermines academic integrity. Also, in group projects, students are encouraged to collaborate and share ideas. However, the submission of identical or nearly identical work individually violates academic integrity. Hence, two students submitting the same project or essay with minor changes is considered a breach of integrity. Therefore, higher education institutions often use plagiarism detection software, such as *Turnitin* globally and *Detectia* in Algeria, to uphold academic integrity standards. These tools ensure that students' work is original and properly referenced.

Academic integrity is a vital principle in the field of education, grounded in *honesty*, *accountability*, *transparency*, and *trust* among educational stakeholders. Breaches of this integrity, such as plagiarizing, collaborating inappropriately,

cheating during exams, violating copyright laws, being complicit in dishonest acts, fabricating data, and falsifying bibliographic references, undermine these core values (Rodrigues et al., 2024).

Artificial Intelligence

As mentioned earlier, AI has been defined in myriad ways, but there is no single definition on which everybody agrees. According to Kurni et al., (2023), Artificial intelligence or AI entails programming machines to exhibit intelligence by processing and analyzing large volumes of data. Hence, the concept of "artificial intelligence" is no longer simply a trendy buzzword used for advertising purposes. AI now holds a significant role in our everyday activities. Figure 2.1 depicts a schematic representation of artificial intelligence.

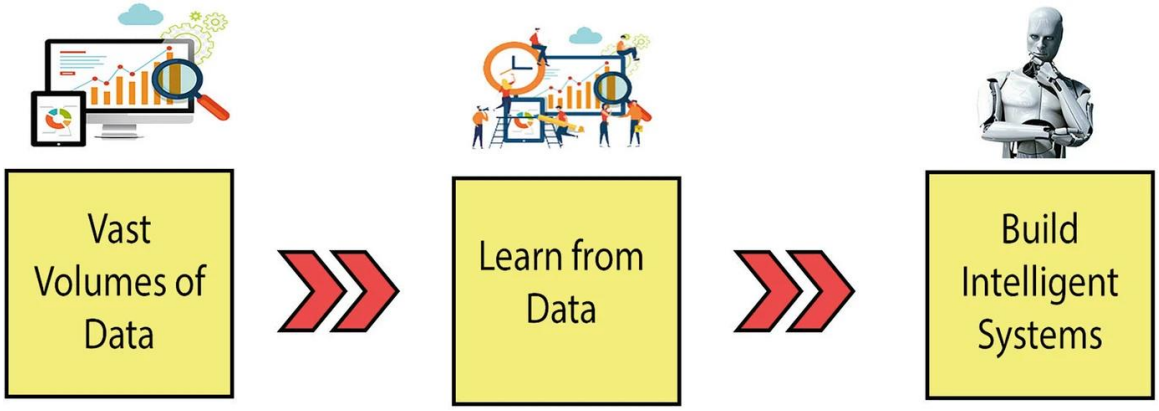

Figure. 2.1: A Schematic Representation of Artificial Intelligence (Adopted from Kurni et al., 2023, p. 2).

This figure offers a conceptual representation of artificial intelligence (AI), depicting the process of leveraging large-scale data to develop intelligent systems capable of emulating human performance. It highlights the foundational role of machine learning and deep learning techniques, which enable AI systems to learn from data, integrate prior knowledge, and enhance the speed, accuracy, and effectiveness of task execution. Additionally, the figure focuses on the use of sophisticated algorithms and techniques in creating autonomous systems, illustrating AI's transformative potential in augmenting human capabilities and advancing technological innovation.

As defined by a growing number of experts in the domain of education, artificial intelligence denotes the ability of machines or computer programs to execute operations such as acquiring knowledge, solving problems, and making

decisions that typically require human cognitive abilities.

AI-powered tools like ChatGPT, DeepSeek ,and Felo can help students generate ideas for essays or answer complex questions. However, without proper supervision, such tools may also facilitate academic dishonesty, such as submitting AI-generated content as one's own work. Another example is the use of AI tools like Gradescope in grading systems, where algorithms evaluate student assignments, providing consistency and efficiency but also raising concerns about fairness and transparency.

Although the notion of an "*age of artificial intelligence*" is employed in a contemporary sense, the idea that machines can mimic human intelligence is not new; it dates back to the 1955 Dartmouth Artificial Intelligence Conference. In essence, AI involves developing machines that can mimic human thought and behavior, enabling them to comprehend, learn, and make autonomous decisions.

Artificial Intelligence: A Potential Threat or Valuable Asset to Academic Integrity ?

The relationship between AI and academic integrity has both positive and negative aspects. It implies that while AI can greatly enhance academic integrity by providing tools to detect and prevent dishonest practices, it can also introduce new challenges and ethical concerns.

AI has the capacity to significantly enhance academic integrity, but it also brings risks and challenges that require meticulous management. This underscores the need for a balanced approach, which leverages the benefits of AI while addressing and mitigating its drawbacks. As highlighted by Gulumbe et al., (2024)," the use of Artificial Intelligence (AI) in academic endeavors poses a significant contradiction. On the one hand, AI can be used to directly contribute to academic writing and provide novel tools for data analysis and hypothesis formulation. On the other hand, it presents significant challenges to the cornerstone of academic integrity."

With the current advancements in AI, the integration of technology and the Internet in education brings both risks and benefits to *Academic Integrity*. One notable risk is *plagiarism*, as the vast availability of information online makes it very easy for students to copy and paste content without proper citation. Additionally, the growth of online essay mills, which allow students to buy pre-written essays or pay for assignment completion, presents a major challenge to academic integrity by encouraging dishonest behavior and compromising the

learning experience (Rodrigues et al., 2024). The rise of online and blended education, along with remote exams, has increased the likelihood of students cheating during assessments. For instance, when students are given assignments on the educational platform of Moodle. Some of them access their classmates' accounts to complete various tasks or even share their answers in Facebook and Messenger groups, especially with the outbreak of COVID-19. Furthermore, the use of Generative AI-based tools by Master 2 students in the preparation of their dissertations without providing proper in-citations as well as references. To address these challenges, higher educational institutions need to implement robust measures to enhance academic integrity in the age of digital technology.

Regarding assets, technological advancements have led to the development of sophisticated tools for detecting plagiarism that can recognize copied or non-original content in academic writings such as *Detectia* which is an online anti-plagiarism detection tool developed recently by ABYSOFT in Algeria. These tools are invaluable assets in upholding academic integrity within the educational community.

To be brief, the rapid technological advancements serve as a double-edged sword in the arena of academic honesty. While they offer valuable tools to maintain honesty, they also introduce numerous obstacles and enticements which can threaten it. In order to maintain academic integrity in the AI era, academic higher institutions need to make investments in both preventative and detective methods, teach students about ethical behavior, and keep up with the rapid advancements of technology (Rodrigues et al., 2024). Maintaining the integrity of academic endeavors requires striking a balance between the advantages and possible drawbacks of technology. These span from conservative approaches that stress the importance of strict AI policies to innovative strategies that aim to harness AI’s potential (Gulumbe et al., 2024). While AI has the potential to revolutionize the way we think about education, there are still many challenges and ethical concerns that need to be addressed in the next section to maintain *Academic Integrity* in the new era of higher education.

Challenges and Ethical Considerations Regarding AI Use and Academic Integrity

Though Artificial Intelligence offers promising benefits, its implementation in higher education is not without challenges and ethical considerations. The evolution of AI in higher education offers numerous benefits, yet it also presents challenges to core values, research methods, academic benchmarks, ethical concerns, and the integrity of academic practices in educational and scholarly research (Khatri & Karki, 2023). The academic community has been vigilant about the ethical considerations brought about by the implementation of AI in educational institutions. The implementation of AI in this domain raises critical ethical concerns and challenges concerning academic integrity, especially regarding the accuracy, reliability, and validity of AI-generated content, data, and citations(Khatri & Karki, 2023).

Academic integrity in the era of artificial intelligence, particularly with tools like ChatGPT, poses new challenges and ethical considerations. It emphasizes the need for well-defined guidelines on the ethical integration of AI in educational settings to maintain standards of honesty and originality in academic work (Santiago et al., 2023). Therefore, a growing number of researchers are exploring these issues to address potential risks and ensure that AI is used appropriately in education.

As described above, the rise of AI-powered tools in academic settings brings several challenges to maintaining academic integrity. Here are some key challenges:

Plagiarism and Originality: AI tools can generate text, which raises questions about originality. Students may submit AI-created content as their own, blurring the line between personal expression and plagiarism.

Misuse of AI for Assignments: There is a risk that learners might use AI to finish assignments, compromising the educational process. This can lead to a lack of understanding of the subject matter and hinder critical thinking skills.

Detection of AI-Generated Work: Institutions may struggle to identify whether a piece of work is authored by a student or generated by an AI, leading to potential difficulties in ensuring that submitted work is genuinely original.

Quality and Accuracy of Information: Not all AI-generated content is accurate or reliable. Students may unknowingly present misleading or false

information as part of their work, which can undermine the credibility of their academic performance.

Reduced Critical Thinking Skills: Over-reliance on AI for writing, problem-solving, or research might impair students' ability to think critically and develop their own arguments or understanding of a subject.

Ethical Use of AI: There are ethical considerations surrounding the ownership of AI-generated content. Questions arise about whether students should disclose their use of AI tools and how this impacts the evaluation of their work.

Academic Dishonesty: As AI-generated content becomes more sophisticated, there is a risk of students engaging in academic dishonesty without fully understanding the consequences or the implications of submitting work generated by AI tools as their own.

Equity and Access: Not all students have the same level of accessing AI tools, which can create disparities in research and learning opportunities. This raises questions about fairness in assessments and evaluations.

Responsibility for AI Use: Determining who bears responsibility for work produced with AI tools—students, educators, or the developers of AI—can be complex, creating accountability challenges.

Additionally, there are ethical considerations surrounding the implementation of AI in research, such as proper attribution and the responsibility of using AI-generated data or insights. In this regard, Khatri & Karki (2023) highlight that the adoption of AI in higher education, particularly in teaching, research, and academic endeavors, poses ethical, pedagogical, and integrity-related issues. It also raises concerns about the authenticity and novelty of content, potentially causing plagiarism and a decline in creativity in pedagogical, research, and scholarly activities.

In the world of academic and research communities, a growing number of journals in databases such as Elsevier are drawing authors' attention to the policies and guidelines concerning the use of AI tools in the writing of manuscripts. For instance, on the landing page of the Scopus-indexed *Journal of Humanities, Arts and Social Sciences Studies*, it was clearly stated on May 11th,

2024, that a Policy permits "the Use of Generative AI and AI-assisted Technologies in Writing". Authors are permitted to use generative AI-powered tools to enhance the readability and language quality of their writing. However, it is crucial that:

— They thoroughly review and edit the output generated by AI tools;
— They must disclose the use of Large Language Model (AI LLM) in the Methods section when they employ AI in the scientific writing process ;
— In any publication, AI LLM should not be acknowledged as an author or co-author ;
— Authors are required to add a declaration titled "Declaration of Generative AI and AI-assisted Technologies in the Writing Process" at the end of their manuscript." This statement should transparently disclose the use of these technologies in the development of the manuscript, among others.

For successful use of Artificial Intelligence in the context of higher education, educators need to be aware of potential risks, build AI literacy, and tackle practical challenges (Bouras,2024). Hence, addressing the above raised challenges and ethical concerns requires an ongoing dialogue among educators, students, researchers, policymakers, and other educational stakeholders to develop effective strategies that promote a *culture of academic integrity* while harnessing the benefits of AI in higher education institutions.

Strategies for Enhancing Academic Integrity in the New Era of Artificial Intelligence

A growing number of scholars and researchers conducted studies on the issue of safeguarding academic integrity in the era of artificial intelligence (AI) in higher education(Al-Amoush & Farhat, 2024; Ghunaim, 2023; Gulumbe et al., 2024; Khatri & Karki, 2023; Kumar et al., 2023; Mahmud, 2024a; Moya et al.,2024; Rodrigues et al., 2024). For instance, Kumar et al., (2023) outlined key considerations regarding the interplay between academic integrity and AI. They suggested some strategies and proposals for upholding academic integrity: *academic misconduct case management, pedagogy and assessment, institutional policy considerations, "analog" higher education, transparency*, and *human detection* (see for an in-depth analysis of the proposed six suggestions in Kumar et al., 2023, pp. 6–11).

Academic integrity needs the conduct of detailed research studies that

examine its causes, track its manifestations, and propose ways to confront them. However, the most important thing is the will to take care of it and resist its violators. This cannot be achieved without ensuring a minimum level of *transparency* and *accountability* (Ghunaim, 2023).

Furthermore, in a recent research Mahmud (2024a) stated that institutional policies can be taken into consideration based on four key dimensions: " *deterrence, detection*, *decisions* and *documentation*."(see a full discussion in Mahmud, 2024a)

Academic integrity policy is intertwined with other policies that need to be revised in the age of AI such as misconduct and plagiarism regulations and assessment policies to enhance a culture of academic integrity in the academic community. In this regard, Mahmud (2024b) uttered " higher education institutions worldwide need to update their policies and practices regarding academic and research integrity to support the ethical implementation of artificial intelligence." Hence, universities must carefully take into consideration the potential risks and rewards of using these AI. Therefore, it has become essential to create a culture of integrity among students and help them engage in practices that are guided by pre-defined universal values. Teachers need to discuss with students the points of intersection between academic integrity and the usefulness of AI tools, and what policy should be adhered to when undertaking each school function or academic task. As a best practice, teachers should start the curriculum by explaining to their students to what degree they are permitted to use AI, and how to link its use to integrity. This policy should be reviewed and discussed before each school assignment(Al-Amoush & Farhat, 2024).

Additionally, here are some effective mechanisms that can harness the power of Generative AI Technologies to enhance *Academic Integrity* in the world of academia :

1. A code of honor for academic integrity in the Algerian Higher Education Institutions
2. Educational strategies to inculcate the values and dimensions of academic integrity among Algerian University students in the new era of ongoing advancements in AI tools, including :

a) Clarifying the values and dimensions of academic integrity;
b) Using role models in building a culture of academic integrity in academia;
c) Fostering moral maturity regarding the values and dimensions of academic

integrity

3. Developing a Department of Ethics responsible for protecting academic integrity in Algerian Higher Education Institutions
4. Raising awareness among students and teachers about the ethical implications of AI and the importance of maintaining academic integrity through several strategies such as educational workshops and seminars, and awareness campaigns, among others. For example, universities can host and organize regular workshops to raise awareness about academic integrity by focusing on topics like identifying plagiarism, proper citation practices, and the ethical use of AI tools.
5. Offering training programs by universities for students and teachers on the ethical use of AI in academia in order to equip students with the knowledge and skills to use AI tools ethically and effectively.For instance, organising a course entitled "*AI and Academic Integrity*" that can cover topics such as:
    - Undesrstqnding how AI tools work
    - Recognizing the ethical implications of using AI in academic work
    - Developing strategies to use AI as a learning aid without violating integrity.
6. Organizing an Academic Integrity Week through study days, web-based seminars, virtual workshops, discussion forums, and collaborative projects among teachers to encourage mutual support and promote a constructive approach
7. Developing advanced AI-powered plagiarism detection tools. In this regard, higher education institutions can collaborate with software developers to create or improve AI-powered plagiarism detection tools in order to identify AI-generated content and ensure originality in academic work. For instance, tools like *Detectia* could integrate AI-detection algorithms to flag text generated by tools like ChatGPT, DeepSeek, and other emerging AI technologies.
8. Creating an annual award for the best research that deals with the topic of academic integrity or provides an applied proposal to mitigate the phenomenon of academic corruption in Algerian education
9. Preparing a procedural guide on academic integrity performance indicators in Algerian universities
10. Restructuring the roles of the Algerian university that are directly related to academic integrity

These mechanisms will contribute to supporting academic integrity in the academic community of the Arab world in general and in Algeria in particular once they are transformed into executive measures to be applied on the ground.

The future of AI in the academic world is highly promising. Scholars from various fields are working together to explore new approaches and tackle ethical and societal challenges related to the usage of AI tools, while also examining new technological advancements.

Implications for Practice

The implications of this research for higher education institutions are multifaceted. Firstly, institutions must develop and implement robust policies that address the ethical use of AI and prevent AI-assisted academic misconduct. These policies should be comprehensive and adaptable to the rapidly evolving AI landscape. It is essential for institutions to invest in advanced plagiarism detection tools capable of identifying AI-generated content.

Secondly, educational initiatives should be prioritized to ensure that both students and teachers are aware of the ethical implications of AI and the importance of academic integrity. Training programs, workshops, and awareness campaigns are effective ways to strengthen a culture of academic integrity and ethical AI use within the academic community.

Thirdly, technological solutions should be leveraged to support academic integrity. AI tools, such as advanced plagiarism detection systems (*Turnitin and Detectia*) and AI-based proctoring solutions, can be effective in identifying and preventing academic misconduct such as cheating in tests and assignments. However, these tools must be implemented with careful consideration of ethical concerns, such as privacy and fairness.

Finally, collaborative efforts among educational stakeholders are essential. Institutions should work together with teachers, students, and technology providers to develop and implement strategies that promote academic integrity. By fostering a collaborative environment, higher education institutions can tackle AI-related challenges and ensure that academic integrity is upheld in the AI era.

These implications provide a road-map for higher education institutions to navigate the complex terrain of AI integration while maintaining the core principles of academic integrity. By adopting a balanced and collaborative approach, educational institutions can leverage AI’s capacities to foster academic integrity and address the ethical challenges associated with AI technologies.

Conclusion

The implementation of Artificial Intelligence (AI) in higher education presents a complex landscape where the potential for enhancing academic integrity coexists with significant ethical concerns and challenges. This paper has provided a comprehensive analysis of these dynamics, emphasizing the dual role of AI as both a facilitator and a potential threat to academic integrity. The findings highlight the necessity for a balanced approach that leverages AI's abilities while preserving the core principles of academic integrity.

Robust policies are essential to address the ethical concerns and challenges posed by AI technologies. These policies should be designed to prevent AI-assisted academic misconduct while promoting the ethical use of AI tools. Educational initiatives are equally important, as they can raise awareness among students and teachers about the ethical implications of AI and the importance of maintaining academic integrity. Collaborative efforts among educational stakeholders, including institutions, teachers, and technology providers, are crucial for developing and implementing effective strategies to uphold academic integrity in the AI era.

In conclusion, while AI offers significant opportunities to enhance academic integrity through advanced detection and monitoring tools, it also introduces new risks that must be carefully managed. By adopting a balanced approach that includes robust policies, educational initiatives, and collaborative efforts, higher education institutions can navigate the complexities of AI integration and enhance *a culture of academic integrity*.

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