

# INTERNATIONAL JOURNAL OF LAW MANAGEMENT & HUMANITIES

[ISSN 2581-5369]

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Volume 7 | Issue 4

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2024

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# AI and Sri Lankan University Students: Developing a Guideline for Optimizing Use and Preventing Misuse

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K. A. A. N. THILAKARATHNA<sup>1</sup> AND W.M.C.P GODAGE<sup>2</sup>

## ABSTRACT

*This paper delves into the transformative impact of AI technologies on university education, focusing on both the opportunities and challenges presented by these advancements. It outlines how AI enhances educational access, efficiency, and personalization in Sri Lankan universities by streamlining research processes, creating tailored learning experiences, and improving the quality of academic writing. However, it also addresses significant challenges, including academic dishonesty, over-reliance on AI, and data privacy concerns. To mitigate these risks, the paper advocates for clear policies, transparency, and proper training on the ethical use of AI, emphasizing the need for balanced integration to foster critical thinking and independent research skills. Additionally, it highlights the role of AI in exam preparation through adaptive learning platforms and AI-powered tutoring systems, while noting the importance of equitable access and data protection. The paper concludes with comprehensive guidelines for the ethical use of AI in academic settings, promoting transparency, honesty, fairness, and proper documentation of AI usage. These guidelines aim to foster responsible AI use, ensuring that technological advancements contribute positively to student learning while upholding academic integrity. A detailed sample guideline for the ethical use of AI by university students is provided at the end to help institutions navigate these complex issues effectively.*

**Keywords:** AI in education, Academic integrity, Personalized learning, Ethical guidelines.

## I. INTRODUCTION

The proliferation of Artificial Intelligence (AI) technologies in recent years has ushered in a new era of academic engagement, dramatically reshaping how university students interact with their coursework and broader educational environment (Kamalov, Calonge, & Gurrib, 2023). The advent of sophisticated AI tools has not only augmented the learning landscape but has also presented novel opportunities and challenges that are fundamentally altering the traditional paradigms of university education. In Sri Lanka, AI's integration into university settings

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<sup>1</sup> Author is a student at Faculty of Law, University of Colombo, Sri Lanka.

<sup>2</sup> Author is a student at Institute of Human Resource Advancement, University of Colombo, Sri Lanka.

primarily serves to enhance educational access, efficiency, and personalization, facilitating a more tailored learning experience that can adjust to the individual needs and pace of students (Fairouz, Jayasundara, & Udara). This transformative technology assists in a variety of academic activities, from automating routine tasks like data collection and analysis to providing sophisticated platforms for learning and examination preparation.

AI tools significantly streamline the research process, enabling students to gather and process large volumes of information swiftly and accurately. Platforms equipped with AI can analyze extensive databases of academic papers, books, and articles, providing students with relevant information that is tailored to their specific study needs (Malik, et al., 2023). This capability not only accelerates the research phase but also enhances the quality of the insight's students can obtain, which is particularly beneficial for complex and data-intensive subjects. In the Sri Lankan context, AI can help bridge gaps in resource availability by providing access to global databases and research materials that might otherwise be inaccessible.

Furthermore, AI is instrumental in creating personalized learning experiences. Through adaptive learning technologies, AI systems can modify content delivery based on real-time assessments of a student's performance, focusing on areas that require improvement. This approach ensures that students engage with material that is most pertinent to their learning needs, optimizing their study time and bolstering their academic performance (Gligorea, et al., 2023). In Sri Lanka, where class sizes can be large and individual attention limited, AI can play a crucial role in providing personalized feedback and support to each student.

In writing and composition, AI applications such as grammar checkers and writing assistants help students refine their work, ensuring clarity and coherence in their written communications. More advanced AI writing tools can even aid in the generation of outlines or drafts, helping students overcome barriers such as writer's block or unfamiliarity with the subject matter (Wang C. , 2024). However, this also introduces questions of authorship and originality, compelling both students and educational institutions to carefully consider the implications of AI-assisted work. For Sri Lankan students, especially those from non-English speaking backgrounds, AI can provide essential support in producing high-quality academic writing (Ministry of Technology, 2024).

Despite the apparent benefits, the use of AI in university settings is not without its challenges. Issues of academic integrity, equity in access to technology, and the potential for over-reliance on AI are prominent concerns that institutions must address. As AI tools become more ingrained in academic processes, universities are tasked with developing policies and guidelines that

govern the ethical use of these technologies. Ensuring that students use AI as an aid rather than a substitute for their own intellectual efforts is crucial for maintaining the integrity of the educational process (Chan, 2023). In Sri Lanka, where disparities in technology access exist, it is essential to ensure that all students can benefit equally from AI tools.

## **II. AI IN ACADEMIC ASSIGNMENTS**

### **(A) Ways AI Assists in Completing Assignments**

AI-powered tools have revolutionized the research process by rapidly sorting through extensive data sets to deliver relevant information and sources. Advanced tools like Google Scholar, enhanced with AI capabilities, enable students to efficiently locate academic papers, articles, and books tailored to their specific research topics. Furthermore, AI-driven writing assistants such as ChatGPT and Jasper provide substantial support in generating ideas, drafting outlines, and even composing entire text sections, thereby helping students to overcome writer's block and enhance their writing productivity (Dwivedi & et, 2023).

Beyond research and writing, AI significantly improves the quality of written work. Tools like Grammarly use sophisticated algorithms to scrutinize grammar, punctuation, and style, offering suggestions that improve clarity, coherence, and overall writing quality. This is particularly beneficial for non-native English speakers who may struggle with language nuances. Additionally, AI-powered plagiarism detection tools like Turnitin scan submissions against vast databases to identify potential plagiarism, ensuring academic integrity (Lee, 2023). For assignments involving quantitative research, AI-enhanced software such as SPSS or R facilitates complex statistical analyses and data visualization, enabling students to manage larger datasets and perform advanced analytical tasks that would be cumbersome manually. These AI capabilities collectively empower students to produce high-quality, credible, and well-researched academic work.

### **(B) Benefits of Using AI in Assignments**

The incorporation of AI into assignment completion offers several substantial benefits. Firstly, AI significantly enhances efficiency by speeding up the research and writing process, allowing students to complete assignments more quickly. This efficiency stems from AI's ability to swiftly sift through vast amounts of data, pinpointing relevant sources and information. Additionally, AI writing assistants such as ChatGPT and Jasper aid in generating ideas, structuring outlines, and composing text, thereby alleviating writer's block and streamlining the overall writing process (Tambuskar, 2022).

Moreover, AI tools contribute to the improved quality of academic work. Tools like Grammarly enhance the accuracy of grammar and facts, refine the structure of written pieces, and ensure proper citation practices. This is particularly advantageous for non-native English speakers and those who struggle with language nuances. AI also promotes accessibility, offering features like speech-to-text and text-to-speech that support students with disabilities. Furthermore, AI facilitates personalized learning by adapting to individual learning styles and paces, providing customized feedback and resources that strengthen understanding and skill development (Wang & et, 2023). These combined benefits make AI an invaluable asset in the academic realm, fostering both efficiency and quality in student assignments.

### **(C) Challenges and Ethical Considerations**

While AI offers numerous advantages, it also presents significant challenges. One major concern is academic dishonesty; the ease with which AI can generate comprehensive assignments raises the risk of cheating and plagiarism. This challenge necessitates institutions to clearly define permissible uses of AI to maintain academic integrity. Additionally, the over-reliance on AI tools may hinder the development of essential academic skills such as critical thinking, problem-solving, and independent research (Kumar, Eaton, Mindzak , & Morrison , 2020). This reliance could lead to students becoming overly dependent on technology, potentially compromising their ability to think independently and engage deeply with their studies.

Furthermore, privacy concerns are a critical issue associated with AI use in education. AI tools often require access to personal data to function optimally, raising the potential for misuse or unauthorized access to sensitive information (Dalmia, 2023). Both students and institutions must be vigilant about protecting data privacy, implementing robust measures to ensure that personal information is handled securely and ethically. These challenges highlight the need for a balanced approach to integrating AI in education, ensuring that its benefits are harnessed while mitigating potential risks.

### **(D) Guidelines for Ethical Use**

To harness the benefits of AI while mitigating risks, universities should establish clear guidelines on AI use in academic assignments. Transparency is crucial; students should disclose when they use AI tools in their assignments, especially if significant portions of the content are AI-generated. This openness ensures that both students and educators are aware of the extent to which AI has been utilized, promoting honesty and accountability (Hosseini, Resnik, & Holmes, 2023). Furthermore, maintaining a balance is essential; AI should be employed as a support tool

rather than a replacement for student effort and learning. Students should critically engage with and refine AI-generated content, ensuring that they develop their own understanding and analytical skills.

In addition, education on ethical AI use is imperative. Institutions should provide training to help students distinguish between acceptable assistance and academic dishonesty, emphasizing the importance of personal effort and integrity. By educating students on the ethical implications of AI, universities can foster a culture of responsible and thoughtful AI use. This approach not only enhances the academic experience but also prepares students for future professional environments where ethical AI use will be increasingly relevant. By implementing these guidelines, universities can effectively integrate AI into the academic landscape while safeguarding the integrity of education.

### **III. AI IN EXAM PREPARATION**

#### **(A) Types of AI Tools Used for Exam Preparation**

AI in exam preparation encompasses various tools and platforms, each designed to assist students in unique ways. Adaptive learning platforms, such as Khan Academy and Coursera, use AI to adjust the difficulty and focus of study materials based on a student's performance. These systems provide personalized quizzes and tutorials that target the student's weak areas in real-time, ensuring efficient use of study time (Fitria, 2021). By continuously adapting to the learner's needs, these platforms help students master challenging concepts and improve their overall understanding.

AI-powered tutoring systems like Carnegie Learning and Squirrel AI offer one-on-one tutoring sessions in subjects such as mathematics, science, and engineering. These platforms can answer questions, provide detailed explanations, and simulate real exam conditions to help students prepare more effectively. The interactive nature of these AI tutors allows for personalized feedback and tailored instruction, which can be especially beneficial for students who need extra help in specific areas or who prefer a more individualized learning approach (Seo, Tang, Roll, Fels, & Yoon, 2021).

Additionally, flashcard apps and memory aids like Anki and Quizlet use AI-powered spaced repetition algorithms to help students memorize facts and concepts more efficiently. These applications determine the optimal intervals for reviewing specific pieces of information, enhancing long-term retention. Predictive analysis tools further aid exam preparation by analyzing past examination patterns and student performance data to predict potential exam questions or topics. By focusing their revision on likely exam content, students can prepare

more strategically and effectively, maximizing their chances of success.

### **(B) Benefits of AI in Exam Preparation**

The integration of AI into exam preparation offers several key benefits that enhance the overall study experience. Efficiency is a primary advantage, as AI tools streamline the study process, enabling students to cover more material in less time (Melo, 2023). Adaptive learning technologies ensure that students focus on reinforcing their weakest areas, leading to a more balanced knowledge base. This targeted approach not only maximizes study time but also helps in mastering difficult concepts more effectively.

Moreover, AI provides customized learning experiences tailored to the unique learning styles and needs of each student, potentially increasing their motivation and engagement. Spaced repetition and personalized quizzes improve memory retention, which is crucial for performing well in final exams. Additionally, by offering structured learning paths and predictive insights, AI can reduce the anxiety associated with exam preparation (Katiyar, et al., 2024). This structured support allows students to approach their studies with confidence, fostering a less stressful and more productive learning environment.

### **(C) Challenges and Considerations**

Despite these advantages, the use of AI in exam preparation also poses several challenges that need careful consideration. One significant concern is over-reliance, where students might become too dependent on AI tools, potentially undermining their ability to think critically and solve problems independently. This reliance can hinder the development of essential cognitive skills that are crucial for academic and professional success. Therefore, it is important to balance the use of AI with traditional learning methods to ensure that students develop a well-rounded skill set.

Another challenge is equity and access, as not all students may have equal access to advanced AI tools, potentially exacerbating educational inequalities. Institutions must ensure that these technologies are accessible to all students to prevent widening the gap between those with resources and those without (Holstein & Doroudi, 2024). Additionally, data privacy is a major concern, as AI systems often require access to personal data to function optimally. Educational institutions must be vigilant about how data is collected, used, and stored to avoid breaches of privacy and ensure that students' personal information is protected. These challenges highlight the need for a thoughtful and balanced approach to integrating AI into exam preparation.

### **(D) Guidelines for Effective Use**

To maximize the benefits of AI in exam preparation while minimizing potential drawbacks, it is crucial to establish several guidelines. First, balanced use should be encouraged, ensuring that students utilize AI as a supplementary tool rather than a complete solution. Combining traditional study methods with AI can enhance learning outcomes by fostering critical thinking and problem-solving skills alongside the convenience and efficiency AI provides. This approach helps maintain a healthy balance between technological assistance and independent learning.

Additionally, transparency and training are essential. Educators should clearly communicate the capabilities and limitations of AI tools and provide proper training on their use to ensure students can effectively integrate these technologies into their study routines (Owan, Abang, Idika, & Bassey, 2023). Regular monitoring and evaluation of the impact of AI tools on student performance and well-being are also necessary. This ongoing assessment ensures that AI is being used effectively and ethically, allowing for adjustments as needed to optimize learning experiences and protect student privacy. By implementing these guidelines, educational institutions can harness the advantages of AI while addressing potential challenges.

#### **IV. AI IN DISSERTATION AND THESIS PREPARATION**

##### **(A) AI Tools Used in Dissertation and Thesis Preparation**

AI integrates into various stages of dissertation and thesis preparation, profoundly impacting several key areas. For literature review, AI-powered tools such as Iris.ai expedite the process by using natural language processing (NLP) to understand the context of research topics and locate relevant studies, papers, and books. This approach saves time and effort by providing researchers with comprehensive literature searches beyond mere keyword-based methods.

In data collection and analysis, AI applications are invaluable for managing and interpreting large datasets, especially in dissertations involving big data. Machine learning algorithms can uncover patterns, trends, and correlations that might elude human researchers (Xu & et, 2021). Tools like Python libraries, including Scikit-Learn and TensorFlow, enable complex data analyses, making them essential resources in academic research. These AI capabilities streamline the analysis process, allowing researchers to focus on interpreting results and drawing meaningful conclusions.

AI also enhances content generation and editing. Writing assistants like Grammarly and ProWritingAid help correct grammar and style issues while ensuring clarity and conciseness. These tools are particularly beneficial for non-native English speakers, improving the readability and professionalism of their dissertations. Additionally, AI-enhanced reference



management tools such as Zotero and Mendeley efficiently organize and cite references, automatically formatting citations and bibliographies to reduce manual effort and minimize errors. Plagiarism detection tools like Turnitin and Copyscape further ensure the originality of dissertations by comparing text against extensive databases to identify potential plagiarism, upholding academic integrity.

### **(B) Benefits of AI in Dissertation and Thesis Preparation**

Using AI in the preparation of dissertations and theses offers several significant advantages. One major benefit is efficiency and time management. AI can greatly reduce the time required for data collection, analysis, and writing, allowing researchers to concentrate more on the substantive content of their work rather than on repetitive, mundane tasks. For example, AI-powered literature review tools can quickly locate and organize relevant studies, while data analysis software can swiftly process large datasets, identifying patterns and trends that would be time-consuming to discover manually.

Additionally, AI improves the overall quality of research. Advanced AI tools enable more thorough data analysis, helping researchers uncover novel insights that might not be apparent through traditional methods. Automated tools also enhance accuracy by minimizing human errors in data analysis, literature reviews, and referencing, thus increasing the academic rigor of the dissertation. AI-driven writing assistants can refine grammar and style, ensuring clear and professional communication. Furthermore, AI-based plagiarism detection tools maintain academic integrity by checking the originality of the work against vast databases. Together, these advantages make AI an invaluable asset in producing high-quality, rigorous academic research.

### **(C) Ethical Considerations and Challenges**

While AI offers considerable benefits in academic research, its use also presents several challenges. One significant concern is the risk of over-reliance on technology, which might lead researchers to depend too heavily on AI, potentially compromising their depth of understanding and critical thinking. This dependency can diminish the development of essential skills that are crucial for independent research and analytical thinking. Furthermore, the ease of generating content with AI tools might tempt some to bypass the rigorous process of genuine research, raising issues of plagiarism and originality. This could undermine the integrity of academic work and devalue genuine scholarly efforts.

Another critical challenge is data privacy (Tambuskar, 2022). AI tools often require access to sensitive data, making it imperative for researchers to ensure that they use these tools in

compliance with ethical standards and data protection regulations. The potential for data breaches or misuse of personal information necessitates stringent measures to safeguard privacy and maintain the trust of research participants. By addressing these challenges with thoughtful guidelines and ethical practices, the academic community can leverage the advantages of AI while mitigating its risks.

#### **(D) Guidelines for Effective Use**

To ensure the effective and ethical use of AI in dissertation and thesis preparation, several guidelines should be considered. First, transparent use is essential; researchers should clearly disclose any AI tools used in their methodologies to maintain transparency and integrity (Resnik & Hosseini, 2024). This openness helps to preserve the authenticity of academic research and allows for a clear understanding of how AI has contributed to the findings and conclusions.

Second, AI should be utilized as a supplemental tool to augment research capabilities rather than replace the researcher's core analytical work. This approach ensures that AI aids in enhancing productivity and efficiency without undermining the development of critical thinking and independent research skills. Lastly, universities should offer comprehensive training sessions on the effective and ethical use of AI tools in research, ensuring that students are well-informed about the potential and limitations of these technologies. By fostering awareness and understanding, institutions can promote the responsible integration of AI into academic research.

### **V. IMPACT OF AI ON ACADEMIC INTEGRITY**

#### **(A) Positive Impacts**

Enhanced learning tools leveraging AI can significantly improve the educational experience by providing personalized learning opportunities and additional support in environments where human resources are limited. These AI-powered tools can tailor educational content to individual students' needs, ensuring that each learner receives the appropriate level of challenge and support (Hosseini, Resnik, & Holmes, 2023). This personalization helps students to better understand difficult concepts and enhances their overall learning experience.

Additionally, AI plays a crucial role in maintaining academic integrity and fairness. AI-driven software such as Turnitin helps educators detect plagiarism more effectively, ensuring that the originality of academic work is upheld. Moreover, AI can be used for objective grading of assignments and exams, reducing human bias and ensuring consistency in scoring. This objective assessment fosters a fairer academic environment, where students are evaluated based

on their actual performance rather than subjective judgment.

### **(B) Challenges**

The potential for misuse is a significant challenge with AI in education. The ability of AI to complete sophisticated tasks can tempt students to pass off AI-generated work as their own, undermining learning outcomes and fair assessment. This misuse can lead to a lack of genuine engagement with the material, as students may rely on AI to do the heavy lifting, ultimately detracting from their educational experience and mastery of the subject matter.

Moreover, over-reliance on AI for learning and problem-solving can impede the development of critical thinking and independent learning skills. When students become dependent on AI tools, they may miss out on the opportunity to engage deeply with the material and develop essential problem-solving abilities (Zhai, Wibowo, & Li, 2024). This reliance can create a learning environment where students are less prepared to tackle challenges independently, potentially affecting their long-term academic and professional success.

Equity issues also arise with the use of AI in education (Holstein & Doroudi, 2024). Access to advanced AI tools might not be equitable, potentially disadvantaging students who do not have access to these technologies. This disparity can widen the gap between students who can afford these tools and those who cannot, exacerbating existing educational inequalities. Ensuring that all students have equal access to AI tools and resources is crucial to maintaining a fair and inclusive educational environment.

### **(C) Maintaining Academic Integrity in the Age of AI**

As AI becomes more embedded in academic practices, institutions must adapt their policies and practices to address new integrity challenges effectively. One of the critical steps is to establish clear policies and guidelines. Institutions need to develop comprehensive policies that define what constitutes acceptable use of AI in academic work. This includes requiring students to disclose the use of AI tools in their assignments, clearly defining how and when AI tools can be used, particularly in assignments and exams, and establishing strict penalties for misuse of AI that compromises academic integrity.

Education and awareness are crucial for ethical AI use. Educational programs should include training sessions such as workshops and seminars that highlight both the benefits and risks of AI in academia. Providing guidelines and resources helps students understand how to use AI responsibly, while incorporating discussions on AI and its implications in professional and academic contexts within ethics courses fosters a deeper understanding of the ethical considerations surrounding AI.

Monitoring and enforcement are essential to ensure compliance with integrity policies. Institutions should implement AI-driven systems to monitor the use of AI in coursework and detect possible violations. Regular reviews of AI use policies and their effectiveness should be conducted to make necessary adjustments. This proactive approach ensures that policies remain relevant and effective in addressing new challenges as AI technology evolves.

Technological solutions also play a critical role in maintaining academic integrity. Developing or adopting tools that can differentiate between student-generated work and AI-generated content can help educators verify the originality of student submissions. These tools can analyze writing style, consistency, and other markers to determine whether work is the result of independent student effort or AI assistance. This verification process helps maintain the credibility of academic work.

By implementing clear policies, providing education and awareness, ensuring monitoring and enforcement, and adopting technological solutions, institutions can effectively integrate AI into academic practices while safeguarding the integrity of academic work. These measures collectively address the challenges posed by AI, ensuring that its benefits are realized without compromising the fundamental principles of academic integrity.

## **VI. CONCLUSION**

AI presents both opportunities and challenges for academic integrity. It offers significant benefits such as personalized learning experiences and efficient resource utilization, enhancing the overall educational process. However, these advantages necessitate a reevaluation of how knowledge is authentically learned and demonstrated. Educational institutions must establish robust policies to define acceptable AI use, ensuring transparency and ethical behavior.

By educating all participants—students, faculty, and staff—about the ethical implications and proper use of AI, and by leveraging technology wisely to monitor and enforce these policies, institutions can harness the benefits of AI while upholding and strengthening academic integrity. This balanced approach allows for the innovative use of AI in education while maintaining the core values of academic honesty and responsibility.

## **VII. SAMPLE GUIDELINE FOR THE ETHICAL USE OF AI BY UNIVERSITY STUDENTS**

### **(A) Purpose and Scope**

**Objective:** To promote the responsible and ethical use of AI tools in academic settings, ensuring they enhance learning while maintaining academic integrity.

**Scope:** These guidelines apply to all undergraduate and graduate students across all departments

and faculties within the University.

### **(B) Definitions**

**Artificial Intelligence (AI):** Systems or machines that mimic human intelligence to perform tasks and can iteratively improve themselves based on the information they collect.

**AI Tools:** Software and applications that use AI to assist with academic tasks, including but not limited to research, data analysis, content generation, and tutoring.

### **(C) General Principles**

**Transparency:** Students must disclose the use of any AI tools in their academic work where such tools significantly contribute to the final output.

**Honesty:** Students should ensure that their use of AI does not mislead others about their abilities or the amount of effort put into their work.

**Fairness:** AI should be used in a way that does not give unfair advantage to individuals or groups who have access to advanced technologies.

### **(D) Permissible Uses of AI**

**Research Assistance:** Using AI to gather background information, find relevant literature, and gain insights into existing data as long as sources are properly cited.

**Writing Aid:** Utilizing AI tools for grammar checking, writing suggestions, and formatting help, provided the core ideas and arguments are the student's own.

**Study Assistance:** Employing AI-based tools for tutoring, practice quizzes, and understanding complex concepts to enhance learning outcomes.

### **(E) Prohibited Uses of AI**

**Submission of AI-Generated Work:** Submitting work wholly generated by AI as one's own without significant modification or input.

**Unauthorized Assistance During Exams:** Using AI tools during examinations unless explicitly allowed by the instructor or the examination rules.

**Plagiarism and Misrepresentation:** Using AI to paraphrase or modify existing works without proper attribution, or to create the illusion of original thought where there is none.

### **(F) Disclosure Requirements**

**Mandatory Disclosure:** Students must disclose the use of AI tools in their academic work in any instance where the AI significantly contributes to the content of the work submitted.

Documentation: Students should document the extent of AI assistance, including what tasks were performed by AI and how the outputs were used.

### **(G) Monitoring and Compliance**

Random Audits: The University may perform random audits of student work to ensure compliance with these guidelines.

Reporting Mechanism: Students and faculty are encouraged to report suspected misuse of AI through a confidential reporting system.

### **(H) Penalties for Non-Compliance**

Academic Penalties: Students found violating these guidelines may face penalties ranging from grade reductions to more severe disciplinary actions, depending on the severity of the misconduct.

Educational Remedies: In cases of minor violations, students may be required to complete an educational program on ethical AI usage.

### **(I) Review and Update of Guidelines**

Regular Review: These guidelines will be reviewed annually to adapt to new AI developments and changes in academic practices.

Feedback Mechanism: Students and faculty will be encouraged to provide feedback on the guidelines, which will be considered during annual reviews.

### **(J) Conclusion**

These guidelines aim to foster an academic environment where AI tools are used responsibly and ethically to enhance educational outcomes. By setting clear expectations for the use of AI, the University can ensure that technological advancements contribute positively to student learning while upholding the values of academic integrity.

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