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# The Impact of Artificial Intelligence Technology Integration on the Indonesian Language Learning Process in Higher Education

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#### **Abstract**

The integration of artificial intelligence (AI) technology into Indonesian language learning in higher education presents both significant opportunities and significant challenges. AI has been shown to improve the quality of learning through automated feedback, linguistic analysis, and personalized recommendations that support students' writing skills, vocabulary mastery, and academic literacy. Lecturers also benefit from reduced technical burdens, allowing them to focus more on the substance of their thinking and the development of critical thinking skills. However, research findings indicate the risk of over-reliance on technology, which can undermine students' creativity, reflection, and originality. Other challenges arise from ethical aspects, such as the potential for conceptual plagiarism and stylistic homogenization. To anticipate these issues, strong digital literacy, ethical awareness, and clear institutional regulations are needed so that AI can be positioned as a pedagogical partner, not a substitute for the intellectual process. This study used a descriptive qualitative approach involving lecturers and students as participants, and analyzed the dynamics of AI use through interviews, observations, and document reviews. The findings emphasize the importance of curriculum reform that integrates digital literacy, ethical use of technology, and critical thinking skills. With adaptive pedagogical strategies, AI can enrich the learning experience without sacrificing the humanistic values of language.

**Keywords:** Artificial Intelligence; Digital Literacy; Indonesian Language Learning

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## Introduction

The integration of artificial intelligence technology into education has become an unavoidable global phenomenon, driven by the rapid development of digital technology. Universities, as centers of scientific development, are required to continuously adapt to these changes, including in the realm of Indonesian language learning. AI technology can deliver more responsive learning systems, adapting to individual needs, and providing a more interactive learning experience (Marlin et al., 2023). This shift marks a new era in education that positions technology as a strategic partner in shaping academic competence and language literacy.

Indonesian language learning at the university level has traditionally served as a vehicle for instilling language skills, including critical reading, academic writing, and speaking with proper structure. However, the still-dominant conventional methods often face limitations, particularly in providing rapid and accurate feedback to students. The advent of artificial intelligence offers potential solutions through automated evaluation systems, linguistic analysis, and detection of grammatical errors and plagiarism, making the learning process more effective and supporting the achievement of desired competencies (Ulimaz et al., 2024; Herviana, 2025).



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The use of AI technology also has the potential to create more innovative and personalized learning models. With machine learning algorithms, the system can identify student error patterns, recommend appropriate reading materials, and adapt the difficulty level of exercises to individual abilities (Pratiwi et al., 2024). This presents a significant opportunity for lecturers to enrich learning strategies, as the learning process no longer focuses solely on knowledge transfer but instead evolves into an interactive, data-driven experience. AI's role here is not to replace lecturers, but rather to support the creation of more dynamic and effective learning spaces.

This paradigm shift presents unique challenges for lecturers as primary facilitators in the academic process. Mastery of digital literacy is an urgent need for lecturers to integrate technology into the curriculum and learning strategies. Furthermore, there are demands for educators to maintain a balance between the use of technology and humanistic linguistic values. Indonesian is not merely a means of communication but also an integral part of identity and culture, so technology integration must still consider the values and ethics of its use (Hasibuan et al., 2023).

Students, as direct users of technology, are also required to possess strong digital literacy skills. The use of AI-based applications in academic writing, argumentation, or reference searches must be accompanied by critical thinking skills to avoid complete dependence on machines. Independent thinking, originality of work, and analytical skills remain key aspects that must be developed through Indonesian language learning (Hastungkara & Triastuti, 2019). AI should be positioned as a tool to accelerate the learning process, not as a substitute for students' creative thinking.

The integration of AI into learning also has a broad impact on curriculum design. Updates to the Indonesian language curriculum in universities are needed to align with technological developments, for example by incorporating digital literacy, ethical use of AI, and developing critical thinking skills in the digital age. A technology-responsive curriculum will produce graduates who not only master language skills but are also able to adapt to the increasingly competitive demands of the digital era.

Besides the benefits offered, there are also risks that must be anticipated. Excessive reliance on technology can reduce the depth of student reflection, weaken reasoning skills, and impair independent writing skills (Syukur et al., 2024). Therefore, universities need to formulate clear guidelines and policies regarding the use of AI in learning. An ethical approach that emphasizes the balance between technology and academic values is crucial to minimize negative impacts.

Thus, the integration of artificial intelligence into Indonesian language learning at universities presents both significant opportunities and significant challenges. This technology can enrich learning strategies, accelerate feedback, and support personalized learning. However, its success depends heavily on the readiness of lecturers and students to master digital literacy and uphold linguistic values. Universities are required to focus not only on technical aspects but also consider ethical, cultural, and academic implications so that AI integration truly makes a positive contribution to the development of quality language education at the tertiary level.

## Methodology

This study uses a descriptive qualitative approach aimed at understanding in depth how the integration of artificial intelligence impacts the Indonesian language learning process in higher education. This approach was chosen because qualitative research allows researchers to explore complex phenomena, interpret the meaning of participants' experiences, and examine the dynamics that occur in real-world contexts. According to Moleong (2019), descriptive qualitative research seeks to describe the phenomena under study in detail without manipulating variables, making it highly suitable for examining changes influenced by technology integration in education.

The research subjects were purposively selected, namely lecturers and students at universities who have used or been exposed to artificial intelligence technology in Indonesian language learning. Purposive selection was carried out to ensure the data obtained is truly relevant to the research focus. In line with Creswell's (2018) opinion, purposive sampling is used in qualitative research to select participants who have direct experience with the phenomenon being studied, so that the information obtained can provide a rich and in-depth picture.

Data collection techniques included in-depth interviews, participant observation, and document analysis. Interviews were used to gain insight into lecturers' and students' perceptions of the benefits and challenges of using AI in Indonesian language learning. Observations were conducted to directly observe the dynamics of technology use in the classroom, both in terms of learning interactions and

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teaching strategies. Document analysis included a review of institutional policies, curriculum designs, and student academic products utilizing AI-based technology.

Data analysis was conducted interactively using the Miles and Huberman (1994) model, which includes data reduction, data presentation, and conclusion drawing. Data reduction was used to sort information relevant to the research focus, data presentation was done in the form of a systematic descriptive narrative, while conclusion drawing was iterative, continuously compared with new data until consistent findings were obtained. This approach enabled researchers to discover patterns, themes, and meaning from the research results.

Data validity is maintained through source and technique triangulation. Source triangulation is conducted by comparing information from lecturers, students, and official documents, while technique triangulation is conducted by comparing the results of interviews, observations, and document studies. According to Denzin (2017), triangulation is an important strategy in qualitative research because it can increase data validity by verifying information from multiple perspectives.

Research ethics were also upheld by ensuring the confidentiality of participants' identities and obtaining informed consent before conducting interviews or observations. This principle aligns with Flick's (2014) view, which emphasizes that qualitative research must be based on research ethics to maintain participant trust and comfort, resulting in more accurate and authentic data.

Using a descriptive qualitative approach, this research aims to provide a comprehensive overview of the opportunities and challenges of AI integration in Indonesian language learning. This research not only reveals perceived benefits but also highlights risks and strategies for maximizing the ethical and sustainable use of technology in higher education.

#### **Results and Discussion**

## 1. Benefits of Artificial Intelligence Integration in Indonesian Language Learning

The integration of artificial intelligence into Indonesian language learning has yielded significant benefits for the development of students' language skills in higher education. This technology provides fast and accurate automated feedback on grammatical errors, sentence structure, and academic writing style. This speed of feedback makes it easier for students to identify recurring errors in their writing, thereby speeding up the revision process. One student stated,

"When writing essays, I can immediately see grammatical errors and suggest improvements. This allows me to quickly identify common mistakes without having to wait for corrections from my instructor."

This statement demonstrates that AI functions not only as a correction tool but also as a facilitator of reflective learning (Mustoip et al., 2023). Real-time feedback encourages students to more actively improve their writing. Thus, AI directly strengthens students' independent learning in academic writing skills.

From a lecturer's perspective, AI integration also has a significant positive impact on the teaching process. With AI assistance, the burden on lecturers to correct technical errors is reduced, allowing them to focus more on the substance of students' ideas and the quality of their arguments. One lecturer interviewed emphasized,

"AI helps me focus more on students' ideas and argumentation, rather than spending too much time on the technical details of language."

This demonstrates a shift in the role of lecturers from technical evaluators to facilitators of critical thinking. This finding aligns with Pasaribu et al.'s (2024) view that AI enables personalized, data-driven learning. Lecturers can utilize this time to improve the quality of interactions with students, for example through in-depth discussions and research mentoring. In this way, AI integration actually strengthens humanistic pedagogical values.

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In addition to improving writing quality, AI also helps enrich students' vocabulary for academic work. AI-based applications typically provide more varied and contextually appropriate alternative wording recommendations. Students report that these suggestions improve their word choice. One student stated,

"I often run out of words when writing, but the AI app provides alternative words that fit the context. It makes my writing more lively and less monotonous."

This illustrates that AI not only trains technical skills but also strengthens students' linguistic expression. According to research by Rahmawati et al. (2025), AI can enhance linguistic creativity by providing opportunities for broader vocabulary exploration. This allows students to write with a richer and more varied academic nuance.

Another benefit gained is AI support in the scientific reference search process. Students find it helpful in finding academic sources relevant to their writing topics. The search process, which typically takes hours, is shortened by the AI algorithm's ability to accurately filter literature. This increases efficiency while also training students' digital literacy. This technological support aligns with the view of Susandi et al. (2025), who emphasize that AI has great potential in supporting 21st-century literacy skills. One student stated,

"I find it easier to find suitable journals because the AI system can suggest relevant references."

With this support, students can develop stronger, data-driven scientific arguments, and the quality of their academic writing becomes more credible and systematic.

However, the interviews also revealed challenges that need to be addressed in AI integration. Several students stated that they sometimes tend to automatically accept AI suggestions without conducting in-depth analysis. One student said,

"I sometimes just follow the AI's suggestions without thinking about whether they actually align with the intent of my writing."

This indicates the risk of technology dependence, which could diminish students' reflective abilities. If left unchecked, students may struggle to develop critical linguistic intuition. Therefore, the role of lecturers remains crucial in guiding students beyond passive users. Lecturers need to emphasize that AI is merely a tool, while language mastery still requires practice, analysis, and in-depth linguistic awareness.

Ethical aspects are also a crucial concern in the integration of AI into Indonesian language learning. The use of this technology has the potential to raise issues related to plagiarism and originality if students simply copy AI output without critical modification. Annisa et al. (2024) emphasize that AI in education must be used with clear academic responsibility principles. Therefore, educational institutions need to provide guidance on the ethical use of AI, for example by developing academic guidelines that regulate the limits of technology use. This way, students can still benefit from AI without sacrificing academic honesty. This ethical awareness can also help shape students' character, enabling them to use technology wisely. AI integration should be viewed as both an opportunity and a challenge in maintaining the quality of learning with integrity.

Overall, the research findings confirm that AI functions not only as a technical tool but also as a pedagogical partner that enriches students' learning experiences. Students benefit from improved writing skills, vocabulary mastery, and academic literacy, while lecturers gain the space to deepen critical guidance. The integration of AI in Indonesian language learning reflects the transformation of the educational paradigm from a traditional one to one based on technology and data. These findings align with global trends that position AI as a key element in the development of 21st-century education.

With the right approach, AI can enhance the quality of Indonesian language learning without diminishing the role of humans as primary educators. Therefore, the use of AI should be continuously optimized with a balanced, adaptive pedagogical strategy oriented toward the comprehensive development of student competencies.

## 2. Challenges and Risks of Using AI in Indonesian Language Learning

The use of artificial intelligence in Indonesian language learning offers multiple benefits. On the one hand, students gain access to writing skills, enrich their vocabulary, and instantly improve their language structure. However, various field findings indicate that this technology presents new challenges. An Indonesian language lecturer stated in an interview,

"I see that students' writing is becoming increasingly uniform. The sentence structure is neat, but the writing style lacks uniqueness. I worry that they're relying solely on AI without truly thinking for themselves."

This statement indicates a decline in student originality and creativity due to reliance on machine-generated text. This phenomenon aligns with research by Taruklimbong & Sihotang (2023), which emphasized that the use of AI in academic writing risks creating a homogenization of language style and weakening the critical thinking skills of novice writers.

The risk of covert plagiarism also arises because students often use AI results as their own work without understanding the thought processes behind them. Although the resulting text isn't a direct copy of the source, this practice approaches conceptual plagiarism. One student interviewed admitted,

"If I use AI, the task is completed quickly. Sometimes I just change a few words to make it look different."

This quote reinforces the finding that students lack ethical awareness regarding the use of technology in academic writing. Apriliani (2024) even warned that digital technology, including AI, could undermine academic quality if not accompanied by appropriate digital literacy, oversight, and regulation.

Furthermore, limited understanding of linguistic concepts is a significant problem. Students may be able to construct grammatically sound texts with the help of AI, but they may not understand the rationale behind certain sentence structures or diction choices. This creates the so-called "illusion of competence," where students feel capable of writing when they are actually just reproducing the machine's output. As another lecturer put it,

"When I ask the students why they use certain words or sentence structures, they can't explain it. That shows they're not really learning the language, they're just copying it from a machine."

This finding is supported by literature which confirms that understanding linguistic concepts cannot only be trained through instant text consumption, but requires exploration, reflection, and repeated writing experiences (Santoso et al., 2025).

Students' critical thinking skills also tend to weaken because AI provides quick and instant answers. The reflective processes that should be present in writing, such as considering arguments, choosing appropriate vocabulary, and constructing rhetoric, are replaced by the consumption of finished products. As a result, student writing becomes informative but shallow. Some lecturers even express concern that the current generation of students may lose critical reasoning skills due to over-reliance on machines. This view aligns with the results of a study by Nurhayati et al. (2025), which asserted that AI,

if not used wisely, can hinder the development of higher-order thinking skills, which is the primary goal of higher education.

Digital literacy emerged as a crucial determining factor. Students who lack adequate digital literacy tend to accept AI results as absolute truth, without verifying their suitability for the Indonesian linguistic context. One student admitted,

"Sometimes I immediately use the AI results because I assume they're definitely correct. However, after my lecturer checks them, I find many parts that don't match."

This quote demonstrates the weak evaluative skills students should possess in the digital age. Research by Virnando & Hariyadi (2024) confirms that low digital literacy can render AI users passive, preventing them from assessing the quality and relevance of the generated text.

From an academic oversight perspective, educational institutions have a strategic role in establishing regulations for the use of AI. Without clear regulations, students will continue to freely use this technology to replace the real learning process. Some universities have begun drafting policies that require AI to be used only to assist with brainstorming or grammar correction, not as a full-fledged substitute for academic writing. This policy is crucial to ensure AI remains positioned as an augmenting tool, not a replacement. As emphasized by Nihayah et al. (2024), clear regulations and adaptive pedagogy can minimize the negative impacts of digital technology use in the classroom.

The role of lecturers has also undergone a significant transformation. They are no longer merely instructors of language materials, but also digital literacy facilitators who must be able to guide students in using AI critically. Lecturers are required to develop evaluation strategies that emphasize the thinking process, for example through portfolio-based assignments, individual reflection, and oral discussions. This approach can reduce students' reliance on AI while also training them to be accountable for their thinking processes.

In the long term, the challenges and risks of using AI in Indonesian language learning are not merely technical issues, but also concern the quality of the graduates produced. If students habitually rely on AI without practicing writing skills, critical thinking, and understanding linguistic concepts, their competitiveness in the academic and professional world will decline. Therefore, AI should be used as a learning partner that enriches, not replaces, the intellectual process. With strong digital literacy, clear academic regulations, and adaptive pedagogical strategies, the benefits of AI can be optimized while minimizing potential negative impacts on the quality of Indonesian language learning.

## 3. Implications for the Role of Educators and Curriculum Development

The shift in learning paradigms brought about by the advent of intelligent technology necessitates critical reflection on the role of lecturers and curriculum design, ensuring both can adapt to the demands of the 21st century without losing humanistic values. Research shows that the role of educators in higher education, particularly lecturers teaching Indonesian, has undergone a significant shift due to the advent of artificial intelligence. Lecturers are no longer positioned solely as transmitters of material, but also as facilitators, guiding students in the critical and ethical use of AI. One of the lecturers interviewed emphasized,

"Students today tend to rely on AI applications for writing, but my job is to ensure they still understand the correct thought processes and language structures."

This statement emphasizes the increasingly strategic role of lecturers in maintaining a balance between technological efficiency and authentic student competency. In line with this, Anggraini et al. (2022) emphasized that educators in the digital era must implement transformative pedagogy by

facilitating the use of technology as a means of developing thinking capacity, not as a complete substitute.

The implications for the Indonesian language curriculum in universities are also a key finding that cannot be ignored. The curriculum, which previously focused on basic language skills, now needs to be expanded to include digital literacy, ethical use of AI, and strengthening critical thinking skills. One student stated in an interview,

"We need guidance on how to use AI appropriately, not just giving it tasks that machines can answer immediately."

This quote demonstrates students' real need for learning that teaches reflective use of technology. This view aligns with Voogt & Roblin (2012), who assert that a 21st-century curriculum must adapt to technological developments and encourage students to develop new digital competencies. Therefore, curriculum renewal is not merely a formality, but an academic and social imperative.

The research also found that lecturers need to instill ethical awareness in the use of AI. Without guidance, students tend to use technology simply to speed up their work without understanding the academic substance. One lecturer respondent stated,

"I often emphasize that AI can help, but the academic responsibility remains with the student."

This perspective reinforces the importance of ethical literacy, as Mishra & Koehler (2006) argue through the TPACK framework that educators must be able to integrate technology, pedagogy, and content in a balanced manner that does not compromise students' intellectual authenticity. This means that lecturers play the role of both supervisors and mentors to ensure that the use of AI continues to prioritize academic integrity.

Another implication is seen in strengthening students' critical thinking skills. Interview data shows that some students feel helped by AI, but also acknowledge the potential for laziness in thinking if unsupervised. One student stated,

"If we don't get guidance, we might just end up copying and pasting from AI, without really understanding it."

This emphasizes the crucial role of lecturers in designing learning strategies that encourage the analysis, evaluation, and synthesis of information. Mardatillah & Wardah (2025) emphasize that critical thinking is a core competency of the 21st century that must be developed to address the complexity of modern information. Therefore, the integration of AI into the Indonesian language curriculum needs to focus on developing students' abilities to assess, filter, and interpret information, rather than simply consume it passively.

In terms of learning methods, research findings indicate the need to combine traditional approaches with project-based and collaborative models. Several lecturers considered reflective discussions, text analysis assignments involving AI, and critical evaluation of AI output to be effective strategies. One lecturer stated,

"I asked students to compare the text they wrote with the text from AI, then they had to explain the differences and advantages of each."

This strategy demonstrates an effort to foster critical awareness in students regarding both the benefits and limitations of AI. This aligns with the constructivist learning perspective, where students construct understanding through interaction with real-world experiences and reflection.

The research also emphasizes that the curriculum must maintain the humanistic values of language. Indonesian is not simply a means of communication, but a vehicle for the formation of identity, culture, and character. Although AI can automatically generate text, authenticity of human expression remains a crucial element. One lecturer stated,

"Our job is to ensure that students continue to write with feeling and meaning, not just soulless technical text."

This statement emphasizes the crucial role of educators in maintaining the sustainability of humanistic linguistic values. Therefore, the integration of AI should not erase the significance of the humanities in language learning, but rather strengthen the function of language as an expression of values, culture, and identity.

Furthermore, the study found that lecturers' readiness to master digital literacy varies. Some lecturers feel they lag behind students in operating new technologies. Therefore, continuous professional development is essential. One lecturer stated,

"We also need training so we can keep up with students in mastering technology."

This demonstrates that the success of AI integration in education is highly dependent on the readiness of human resources. Similarly, a study by Jannati et al. (2023) emphasized that teacher and lecturer professionalism in the digital era must be supported by intensive training, institutional support, and collaboration between educators.

Overall, the results of this study confirm that the roles of lecturers and curriculum development are interconnected in addressing the challenges of AI in education. Lecturers act as critical facilitators and ethical role models, while curricula must be designed responsive to technological developments without losing the humanistic dimension of language. One student concluded, "If our lecturers can guide us, AI becomes a tool, not a replacement." Thus, the implications of this study indicate that the integration of AI in Indonesian language education involves not only technology but also cultural strategies and the strengthening of ethical, critical, and humanistic competencies in students

#### Conclusion

The conclusions of this study indicate that the integration of artificial intelligence in Indonesian language learning presents significant benefits as well as complex challenges for both students and lecturers. This technology has been proven to help students improve their writing skills, enrich their vocabulary, strengthen their academic literacy, and facilitate the search for relevant scientific references. From the lecturer's perspective, AI plays a role in reducing the technical burden, allowing them to focus more on the substance of their thinking and developing students' critical thinking skills. However, the findings also highlight the risks of dependency, decreased creativity, and the potential for conceptual plagiarism, which can undermine the originality of academic work. Students' reflective skills and conceptual understanding are also at risk of being neglected when AI is used instantly without in-depth analysis. Therefore, the role of lecturers as critical and ethical facilitators is crucial in guiding the use of this technology to ensure it remains aligned with pedagogical objectives. The Indonesian language curriculum in higher education needs to be updated to incorporate aspects of digital literacy, the ethical use of AI, and the strengthening of critical thinking skills. Educational institutions are also required to formulate clear regulations to prevent misuse of the technology. The integration of AI should be positioned not as a substitute for intellectual processes, but as a pedagogical partner that enriches the learning experience. With an adaptive pedagogical approach, strong digital literacy, and consistent academic oversight, the benefits of AI can be maximized without sacrificing authenticity and academic integrity. Ultimately, the synergy between intelligent technology and humanistic values is key to realizing Indonesian language learning that is relevant to the demands of the 21st century.

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