

INTELLIGENCE INTEGRATION ARTIFICIAL AND ARABIC LANGUAGE EDUCATION IN INCREASE LITERACY ISLAM GENERATION Z

Muhammad Hazique Kesuma

Faculty of Arabic Language Education, UIN Raden Intan University, Lampung, Indonesia

Email: haziquekesuma8@gmail.com

Abstract

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Study This aim analyze role intelligence Artificial Intelligence (AI) in learning Arabic as well as his contribution to improvement literacy Islam Generation Z. Methods used is studies library research with examine various article scientific related to AI, education Arabic language and literacy Islam published in 2023–2025. Study results show that utilization of AI such as ChatGPT, translator AI- based, applications learning adaptive, and interactive digital platforms capable increase skills Arabic at the same time make it easier access to sources Islam speak Arabic. However Thus, the use of AI requires supervision academic and Islamic ethics so that the information obtained remains valid and not cause dependence technology. Research This conclude that AI integration in education Arabic has potential increase literacy Islam Generation Z when implemented in a way critical, directed, and based Islamic values.

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INTRODUCTION

Introduction containing background background, rationale, and urgency written research Development digital technology in the 21st century has bring significant changes in various aspect life, including field education. One of the growing innovation rapidly is intelligence Artificial *Intelligence* or AI), namely enabling technology system computer copy ability think man in processing information, analyze data, and produce response in a way automatic. The presence of AI does not only change method man work and communicate, but also influence method learning in various level education. In context modern education, AI offers various convenience through provision material adaptive learning, system evaluation automatically, until service learning based conversation that is capable increase effectiveness and efficiency of the learning process teach.

Development the the more relevant when associated with characteristics Generation Z was born and grew up in digital environment. Generation This own level

high interaction with the internet, social media, and various device technology so that tend more like learning that is interactive, flexible, and based technology. Various study show that Generation Z has good ability in access digital information, but at the same time face challenge in filter and verify information obtained from various source. Condition This demand institution education For presenting a learning model that is not only follow development technology, but also capable form ability think critical and character participant educate in face current increasing information complex.

In Islamic education, challenges the become the more important remember literacy Islam own role strategic in form understanding, attitudes, and practices religious generation young. Literacy Islam No only understood as ability read religious texts, but also includes ability understand, analyze, and implement Islamic values in life everyday. In the middle heavy current globalization and digitalization, generation Young Muslims are faced with a variety of information circulating religious beliefs through digital media, both originating from from credible sources or not can accountable in a way scientific. Therefore that, the increase literacy Islam become need urge that the next generation young capable understand Islamic teachings in general right and avoidable from various form misinformation and understanding extreme religious.

One of instrument important in increase literacy Islam is mastery Arabic language. Arabic language has very important position in Islam because become the language of the Koran, hadith, as well various literature classic that became references main in study Islam. Ability understand Arabic allows somebody For access sources Islam in a way direct without depends completely on translation. However Thus, learning Arabic still face various challenges, especially in interesting interest Study participant students who are accustomed to with all-encompassing digital environment fast and interactive. Method learning that is still ongoing approach - oriented conventional often considered not enough in accordance with characteristics Generation Z is more like use technology in the learning process.

In condition said, integration intelligence artificial in learning Arabic offers opportunity promising new. Various application AI- based, such as *chatbot*, system translation automatic, recognition voice (*speech recognition*), and learning platforms adaptive, can help participant educate increase ability speak Arabic more effective and personal. Technology This enable the learning process ongoing When anywhere and anytime, at once give bait come back in a way direct to users. In addition help mastery skills Arabic language, AI can also used For make things easier access to various source digital Islam, such as interpretation of the Qur'an, hadith, turats books, and study Islam contemporary available in Arabic.

A number of study latest show that utilization of AI in learning Arabic gives impact positive to improvement competence language and motivation Study participant educate. (Dahlan & Rifat, 2023) explain that use of AI in learning Arabic does not only contribute to improvement competence linguistics, but also potentially support strengthening Islamic spiritual values if used in a way right. Findings the reinforced by (Indriana & Mukhtar, 2025) who stated that integration digital technology in learning Arabic language capable create experience learn more interesting and appropriate with need participant education in the industrial era 5.0. In addition that, research (Fatem, 2025) show that learning strategy Arabic based technology can increase competence literacy religious through greater use of digital media interactive and easy accessed.

Although Thus, the use of AI in education Arabic language and strengthening literacy Islam also faces various challenges. The information generated by AI systems is not always fully accurate and sometimes need verification from sources authoritative science. In addition that, there is concern about emergence dependence participant educate to technology that can reduce ability think critical and learning process independent. In context Islamic education, aspects ethics and validity source information become attention main Because related direct with understanding to religious teachings. Therefore that, the use of AI must be still is at in corridor Islamic values and accompanied by educators who have competence in field both Arabic and studies Islam.

Based on description said, research about integration intelligence artificial and educational Arabic in increase literacy Islam Generation Z is becoming important For conducted. Research This expected can give comprehensive overview about opportunities, challenges, and implications utilization of AI in learning Arabic as means strengthening literacy Islam in the digital era. In addition give contribution to development study education Arabic, research this is also expected can become references for institution Islamic education in designing innovative, adaptive, and consistent learning models based on values Islam.

REVIEW LIBRARY

Development technology intelligence Artificial *Intelligence* or AI) has be one of focus main in transformation education 21st century. AI is defined as enabling technology system computer copy ability cognitive humans, such as learn, analyze, solve problem, and take decision based on available data. In the world of education, AI has utilized For create system more personal, adaptive, and interactive learning. According to (Alasmari, 2025) , the application of AI in environment education in Arab countries shows significant improvement, especially through use application learning moving (*mobile learning*), system learning chatbot- based, as well as a learning platform that is capable of adapt material with need participant education. Findings the show that AI is not Again functioning as tool help only, but has develop become an integral part of the modern learning process that is capable of increase effectiveness learning.

In context learning Arabic language, the use of AI offers great opportunity For overcome various obstacles that have been This faced participant educate. Learning Arabic is often considered difficult Because involving mastery of grammar, vocabulary, skills reading, writing, speaking and listening in a way simultaneously. Presence AI technology makes it possible participant educate get experience learn more flexible through feature translation automatic, recognition voice (*speech recognition*), as well as system conversation chatbot- based. (Dahlan & Rifat, 2023) explain that use of AI in learning Arabic language capable increase competence linguistics participant educate through provision bait fast and accurate feedback. In addition that, AI technology can help participant educate develop skills speaking in a way independent outside room class so that the learning process No Again limited by time and place.

In line with findings said, (Abid & Sain, 2025) confirm that integration digital technology in learning Arabic in the Industry 5.0 era must notice balance between aspect technology and aspects humanistic. According to their, advanced technology No will give impact maximum if No accompanied with approach attention- based learning need psychological and social participant educate. Therefore that, AI needs positioned as facilities that support the learning process, not as replacement role educators. Views This

show that success AI integration in education Arabic does not only determined by sophistication technology, but also by the teacher's ability in manage and direct use technology the in a way effective.

Discussion about AI in education Arabic does not can separated from characteristics Generation Z as group target main in transformation digital learning. Generation Z is known as growing generation together with the internet and digital technology so own level literacy relative technology tall compared to generation previously. According to (Abid & Sain, 2025) , learning Arabic language that utilizes more digital technology in accordance with characteristics Generation Z because capable present experience interactive, engaging, and problem - based learning need individual. Generation This tend more responsive to use of digital media compared method learning conventional in nature One direction. Therefore that, the use of AI in learning Arabic has potential big For increase involvement participant educate in the learning process at a time strengthen motivation they in learn Arabic.

On the other hand, Arabic has close relationship with development literacy Islam. As the language of the Qur'an, hadith, and various literature classical Islam, mastery Arabic is one of the key important in understand Islamic teachings in general deep. Literacy Islam No only covers ability read religious texts, but also abilities understand, analyze, and implement Islamic values in life daily life. (Al Fatih et al., 2025) explain that learning strategy Arabic based technology can increase competence literacy religious Because give more access wide to various source Islamic knowledge. Through digital technology, participants educate can access the interpretation of the Qur'an, hadith books, and various Islamic literature in Arabic more easy compared to previously. Findings This show that mastery Arabic language and literacy Islam is two interrelated aspects related and can strengthened in a way simultaneously through utilization technology.

Furthermore, the study conducted by (Islami et al., 2026) demonstrates that the integration of technology into Arabic language learning should be accompanied by the cultivation of Islamic values to ensure that the educational process is not solely focused on academic achievement but also on the development of learners' character. According to the authors, the use of technology in Islamic education should be directed toward strengthening religious understanding, enhancing moral awareness, and fostering a critical perspective toward the vast array of information circulating within digital environments. These findings suggest that technology and Islamic values are not inherently contradictory; rather, they can be effectively integrated to create a learning process that is more responsive and relevant to the needs of contemporary society.

Although various study show benefits of AI in education, a number of the study also reminds existence challenges that need to be overcome noticed. (Amilusholihah & Ramadhan, 2025) disclose that use of AI in Islamic education has potential cause problem related validity information, ethics use technology, as well as dependence participant educate to system automatic. In context learning Arabic language and literacy Islam, risk the become the more important Because related with accuracy understanding to religious texts. Therefore that, the use of AI is necessary accompanied by with ability adequate digital literacy so that participants educate capable do verification to information obtained from various AI- based platforms.

Based on various study said, can understood that integration intelligence artificial in education Arabic has great potential in increase literacy Islam Generation Z. AI is capable present experience learn more attractive, flexible, and appropriate with

characteristics digital generation. At the same time, mastery of Arabic language supported by technology can expand access participant educate to sources authentic Islam. However thus, success integration the need proper management, strengthening digital literacy, as well as based mentoring Islamic values. Based on understanding said, research This built on framework think that utilization of AI in education Arabic can become effective means For increase literacy Islam Generation Z when implemented in a way directed, critical, and appropriate with principles Islamic education.

RESEARCH METHODS

Study This use approach qualitative with type study library *research* approach This chosen Because objective study is For study, analyze and interpret various findings related scientific with integration intelligence artificial (*Artificial Intelligence*) in education Arabic as well as the implications to improvement literacy Islam Generation Z. Research literature allows researchers get comprehensive understanding about the phenomenon being studied through review various source relevant scientific without do field data collection in a way directly. With Thus, focus study directed at analysis concept, theory, results study previously, and various development latest related with utilization of AI in learning Arabic language and Islamic education.

Object study in study This is various literature scientific discussion use intelligence artificial in field education, learning Arabic language and literacy Islam. Data sources used consists of on primary data and secondary data. Primary data is obtained from articles scientific papers published in journals national and international discussion AI theme, education Arabic language, Islamic education, and Generation Z. As for secondary data obtained from books, seminar proceedings, reports research, documents academic, as well as various source other relevant scientific with topic research. Literature used in study This prioritized originate from published publications in range 2023–2026 to be able to describe development latest related implementation of AI in the world of education.

Data collection was carried out through technique documentation with browse various article scientific available on the journal portal academic open, repository college high, and scientific database that can accessible online. The search process literature done using keywords like *Artificial Intelligence*, *Arabic Language Learning*, *Islamic Literacy*, *Islamic Education*, *Digital Learning*, and *Generation Z*. From the results search said, selected a number of articles that have relatedness direct with focus study as well as fulfil criteria relevance, topicality, and credibility sources. Literature that has been collected Then selected return For ensure suitability substance with objective study.

Data analysis was performed use technique analysis content *analysis*, namely something methods used For identify, categorize, and interpret information contained in various documents and literature that become source research. Analysis process started with read in a way deep all over literature that has been selected, then identify themes main related with utilization of AI in learning Arabic and its influences to improvement literacy Islam. Furthermore, the data that has been obtained classified based on category certain, such as benefits of AI in learning Arabic language, AI's contribution to literacy Islam, opportunities utilization technology in Islamic education, as well as various challenges and risks that arise in implementation. Classification results the Then analyzed in a way critical For find connection interconceptual and produce greater understanding deep about the phenomenon being studied.



For ensure data validity, research This apply technique triangulation source with compare various findings from different literature. This step done For ensure that information used No only originate from One source certain, but supported by various research that has credibility academic. Besides that, researchers also conducted review critical to every sources used use avoid use insufficient information relevant or No own base strong scientific. Through procedure said, the results study expected capable give objective, systematic, and reliable picture accountable about integration intelligence artificial in education Arabic as effort increase literacy Islam Generation Z in the digital age.

RESULTS AND DISCUSSION

Based on results review to various literature that discusses intelligence artificial *intelligence*, education Arabic language and literacy Islam, found that AI integration has bring enough change significant in the learning process Arabic in the digital age. Various study show that use technology AI- based capable increase effectiveness learning through provision more material interactive, personal, and easy accessed by participants educate. Characteristics The familiar Generation Z with digital technology makes utilization of AI in learning Arabic as relevant approach with needs and style Study they. Technology like *chatbot*, system translation automatic, recognition voice (*speech recognition*), as well as application learning AI- based has utilized For help participant educate understand vocabulary, grammar, skills speaking, and skills read Arabic in general more effective compared to method learning conventional.

Findings research also shows that AI provides contribution positive to improvement motivation Study Arabic. Various application AI- based enables participant educate get experience learn more interesting Because present interaction in a way direct and bait quick return. Condition the in line with characteristics Generation Z tends to like learning based technology and want access information in a way instant. The presence of AI is not only help participant educate in understand material learning, but also giving chance For Study in a way independent outside environment class. With Thus, the learning process No Again limited to interaction between teachers and participants educate, but rather develop become an ongoing learning process in a way sustainable through utilization various digital platforms.

Besides increase competence Arabic, results study show that the use of AI also contributes to strengthening literacy Islam. Literacy Islam in the digital era is not only related with ability read religious sources, but also includes ability understand, criticize, and utilize information Islam in a way right. Mastery Arabic language supported by AI technology allows participant educate access various Islamic primary sources such as the Koran, hadith, tafsir books, and literature classic other in a way more easy. Various current AI applications This has provide feature translation Arabic text, search verses of the Qur'an, identification hadith, until explanation helpful Arabic vocabulary users understand text religious in a way more deep. Ease the give more opportunities big for Generation Z for increase quality understanding Islam they without must depends completely on the source translation.

The results of the study also show this that AI integration in education Arabic language capable support creating a more effective learning process adaptive. System learning AI- based can adapt material with level ability participant educate so that every individual get experience appropriate learning with his needs. In context education Arabic

language, ability adaptive this is very important Because participant educate own background behind different knowledge. Some participant educate Possible has own base good Arabic, while others still be at the stage beginners. Through AI technology, materials learning can arranged in a way gradually in accordance level the abilities of each participant educate so that the learning process become more effective and efficient.

Other findings obtained show that use of AI in learning Arabic can strengthen connectedness between mastery language and understanding values Islam. Arabic is not only tool communication, but also a means main For understand source Islamic teachings. Therefore that, the increase ability Arabic in general No direct will support improvement quality literacy Islam. Various research reviewed in study This show that participant students who have access to technology learning AI - based Arabic tends to more active in search and study sources Islam. Conditions the show that technology can functioning as bridge that connects need learning Language with need strengthening understanding of religion.

Although Thus, the results research also shows existence a number of challenge in implementation of AI in education Arabic language and literacy Islam. One of the challenge main is validity information generated by AI systems. AI technology works based on available data so that there is possibility emergence error information, inaccuracy translation, or less interpretation in accordance with context Islamic science. In learning related Arabic with understanding text religious, error kind of This can influential to quality understanding participant educate. Therefore that, the use of AI is necessary accompanied by with the verification process to credible sources and mentoring from educators who have competence in field both Arabic and studies Islam.

Besides problem validity information, other challenges found is potential dependence participant educate to technology. The convenience offered by AI can be cause part participant educate more depend on technology compared to ability think critical and analytical as it should be developed in the learning process. In context Islamic education, ability think critical is very important For understand various problem religious in a way deep and not just accept information in a way passive. Therefore that, AI integration in learning Arabic is necessary directed at development ability think critical, not only as means get answer in a way instant.

Beside that aspect ethics use technology also becomes attention important in development education AI- based. Good digital literacy required for participants educate capable use technology in a way wise and responsible answer. Islamic education has role important in form awareness ethical the through planting values honesty, responsibility and caution in accept information. With Thus, the integration of AI in education Arabic does not only aim increase competence academic, but also supports formation character participant appropriate education with Islamic principles.

In a way overall, results study show that integration intelligence artificial in education Arabic has great potential in increase literacy Islam Generation Z. AI is capable present a more effective learning process attractive, flexible, and appropriate with characteristics digital generation. Technology this also provides more access wide to sources Islam speak Arabic so that support improvement quality understanding of religion. However, success AI implementation is highly dependent on the capabilities educators and participants educate in utilise technology in a way critical, selective, and based on Islamic values. With proper management, AI integration can become one of the

innovative strategies For strengthen education Arabic at the same time increase literacy Islam Generation Z in the middle development increasingly advanced technology rapidly.

CONCLUSION

Based on results studies that have been done, can concluded that integration intelligence artificial (*Artificial Intelligence*) in education Arabic has significant role in increase literacy Islam Generation Z. Utilization various technology AI- based, such as *chatbot*, system translation automatic, recognition voice, and learning platform adaptive, capable create a more effective learning process interactive, flexible, and appropriate with characteristics digital generation. Technology the No only help participant educate increase competence Arabic, but also makes it easier access to various source Islam Arabic language, such as the Koran, hadith, tafsir, and classical Islamic literature and contemporary.

Research result show that use of AI in learning Arabic can increase motivation learn, expand chance Study independent, and support a more personalized learning process according to with need participant educate. AI capabilities in provide access information in a way fast and diverse participate contribute to strengthening literacy Islam, in particular in help Generation Z understands Islamic teachings through more sources authentic. With Thus, the integration of AI and education Arabic can become one of the effective strategies For answer challenge Islamic education in the digital era.

Although Thus, the application of AI in education Arabic also faces a number of challenges, especially related validity information, risk dependence to technology, as well as aspect ethics in use digital technology. Therefore Therefore, the use of AI is necessary balanced with strengthening digital literacy, ability think critical, and mentoring from educators who have competence in field Arabic and Islam. Besides that, Islamic values must be still become runway main in use technology so that the learning process No only produce participant capable students in a way academic, but also has character and understanding good religious.

With Thus, integration intelligence artificial in education Arabic can become relevant and sustainable innovation in increase literacy Islam Generation Z. Success its implementation need synergy between technology, educators, institutions education, and participants educate so that benefits of AI can optimized For support creation a literate, critical, adaptive Muslim generation to development technology, as well as still hold on adhere to Islamic values.

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