

The Role of Artificial Intelligence in Islamic Education Curricula

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ARTICLE INFO	ABSTRAK
Volume: 4 ISSN: 2963-5489 KEYWORDS Artificial intelligence, Islamic religious education	The relevance of artificial intelligence (AI) in the context of religious education is becoming increasingly widespread and important. The integration of AI in religious education can provide innovative new approaches, improve learning methods, and strengthen students' understanding of religious values. Therefore, the purpose of this study is to determine the role and implementation of AI in Islamic Religious Education. This research methodology uses a literature review, which collects and analyzes information about the theories and principles underlying the use of AI in Islamic religious education. The results of this study show that the role of AI in the Islamic Religious Education curriculum is to improve understanding of religious teachings, increase student motivation and engagement, and enable real-time analysis of student achievement. In conclusion, by utilizing AI as a teaching assistant in Islamic religious education, education can be optimized for better learning planning, careful analysis of student achievement, and the provision of adaptive learning resources. The integration of this technology not only enhances the learning experience for students but also supports teachers in managing their classes more efficiently.

1. Introduction

Technological developments, particularly in the field of artificial intelligence (AI), have had a significant impact on global education systems. AI is revolutionizing teaching and learning, with the prospect of increased efficiency and effectiveness at various levels of education. Research shows that the integration of AI can enhance the personalization of learning experiences and provide faster and more accurate feedback to students, which in turn can improve academic outcomes (Ifenthaler et al., 2024; “The Impact of AI on Teaching and Learning in Higher Education Technology”, 2022; Zhang, 2023).

For example, the implementation of AI in the educational process can automate administrative tasks that burden teachers, such as assessment and feedback, allowing them to focus on direct interaction with students (Tang, 2024; -, 2023). In addition, AI also provides opportunities for students to learn in ways that are more suited to their needs and learning styles. With the ability to analyze large amounts of data.

In this context, it is important to develop policies and frameworks that focus not only on the application of technology, but also on the social and ethical aspects that arise from its use (Aghaziarati et al., 2023; Aprianto et al., 2024; Slimi & Villarejo-Carballido, 2023). Ensuring that all students have equal access to AI technology is also a major challenge that must be addressed by stakeholders in the field of education (Ifenthaler et al., 2024; Aprianto et al., 2024; Sarwar et al., 2024).

In addition, this transition requires the development of a curriculum that is relevant to the use of this new technology. Education must prepare students to face future challenges that are increasingly influenced by AI technology (Slimi, 2021;

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Akgün & Greenhow, 2021; Lérias et al., 2024). Improving AI literacy among educators and students is necessary to ensure that they can fully utilize the potential of these tools and approach them critically.

In today's digital age, the relevance of artificial intelligence (AI) in the context of religious education is becoming increasingly widespread and important. The integration of AI in religious education can provide innovative new approaches, improve learning methods, and strengthen students' understanding of religious values. AI provides a variety of tools that enable personalized learning, which can be tailored to the needs and characteristics of individual students (Ramadiani et al., 2023; Nurhayati et al., 2024).

2. Literature Review

According to Sodik (2024), in an article titled “The Influence of AI in Islamic Education Management,” AI contributes significantly to Islamic education management in the era of the 4.0 industrial revolution, with research results showing that the application of this technology improves the quality of learning and administrative processes. The implementation of AI in management can help educational institutions optimize resources and make the education system more responsive to student needs (Munir & Majid, 2024).

3. Methodology

Zhou and Peng (2025) show that a comprehensive literature review can provide an understanding of the use of AI in teaching and its impact on student creativity. This approach can be used to explore various previous studies related to the topic of Islamic education and the application of AI in this context. Through a systematic search of relevant articles and reports, researchers can gather information about the theories and principles underlying the use of AI in religious education.

4. Results and Discussion

In the context of Islamic religious education, the ability of artificial intelligence (AI) to tailor learning materials and pace to students' needs is a very important aspect. Several AI applications, such as interactive tafsir and adaptive AI-Qur'an memorization exercises, can be developed based on analysis of relevant references.

AI has the ability to tailor learning materials to the specific needs of students. In a study by Efrizal (2024), it was mentioned that AI plays an important role in improving the quality of English language acquisition in Islamic higher education institutions by adapting more adaptively to students' abilities and needs. Similarly, in the context of Islamic religious education, similar applications can be developed to provide teaching materials tailored to students' levels of understanding.

Interactive interpretations supported by AI can provide a deeper understanding of the verses of the Qur'an. (Liu et al., 2023) states that the use of AI tools in teaching can make it easier for teachers to develop content that can be adapted to the speed and learning style of students. With modules that can adapt to student preferences, learning about Qur'anic interpretation becomes more efficient and interesting.

AI can also be used to create adaptive Quran memorization training applications. Trisnawati et al. (2023) highlight that AI in education has the ability to predict student performance and provide automatic feedback, which is very useful in more interactive teaching methods. With this approach, the Quran memorization application can adapt to the student's learning speed, providing memorization material that suits their abilities, thereby increasing the likelihood of success in memorization.

As stated by (Aisyah et al., 2024), AI encourages creativity and innovation in the learning process, providing a more personalized and analytical learning experience. A similar approach can be applied in religious education, where with the help of AI, students can learn in an inclusive environment, where each individual can experience progress according to their respective needs.

AI has significant potential in helping students in remote areas to access quality Islamic Religious Education (IRE) materials through digital platforms. The use of digital technology in education can bridge the accessibility gap, providing opportunities for students in underserved areas to obtain the religious knowledge they need. The following is an analysis and review of several relevant references on this topic.

Artificial intelligence (AI) is increasingly being applied in education, including in Islamic Religious Education (IRE). The use of AI can improve learning effectiveness through various innovative applications. The following are some examples of AI applications that can be used in PAI learning in schools or Islamic boarding schools: Fiqh question-and-answer chatbots, AI-based Al-Qur'an memorization applications, interactive videos and worship simulations, educational games based on Islamic values, and smart learning assistants.

The application of AI-based solutions in Islamic Religious Education (PAI) in schools and Islamic boarding schools has shown significant potential for positive impact. By integrating advanced technology into the curriculum, various benefits can be felt by students, teachers, and educational institutions as a whole. Here are some of the initial results and positive impacts that can be identified from this application.

4.1 Improving Understanding of Religious Teachings

Maulidah et al. (2024) showed that educational policies implemented in schools and madrasas had a positive impact on students' understanding of religion. With the use of AI technology, learning can be personalized, allowing students to understand the material in a way that best suits them. AI can assess students' understanding of fiqh teachings and provide appropriate feedback, making it easier for students to understand the concepts being taught.

4.2 Increased Student Motivation and Engagement

With gamification applications as described in the study by Husniyah et al. (Husniyah et al., 2023), the use of platforms such as Quizizz in PAI teaching has been proven to increase student motivation and engagement. Students show greater interest in the teaching material when they are engaged in game-based interactions, which make religious learning more interesting.

4.3 Real-Time Student Achievement Analysis

Suherman and Indra (2023) explain that information technology can improve the effectiveness of learning evaluation. With the integration of AI-based learning systems, schools can more easily monitor student progress in real time. This allows teachers to provide faster assistance to students who are experiencing difficulties, thereby supporting better academic development.

5. Conclusion

The ability of AI to tailor material and learning speed to students through applications such as interactive interpretation and adaptive Quran memorization exercises is highly relevant in the context of Islamic religious education. The use of this technology not only increases the effectiveness of learning but also provides a more personalized, engaging, and responsive learning experience tailored to students' needs.

The use of AI in Islamic religious education not only helps in assessing students' understanding but also offers specific recommendations for improvement. With the right system, AI can bridge gaps in learning, provide students with the feedback they need, and enable more personalized adjustments to learning materials, which ultimately contributes to a deeper understanding of religious teachings.

The use of AI to deliver PAI content through multimedia formats such as interactive videos, worship simulations, and educational games based on Islamic values shows great potential in improving the learning process. The integration of this technology not only facilitates access to teaching materials but also increases student engagement and understanding of religious teachings.

By utilizing AI as a teaching assistant in Islamic religious education, education can be optimized for better lesson planning, careful analysis of student achievement, and the provision of adaptive learning resources. The integration of this technology not only improves the learning experience for students but also supports teachers in managing their classes more efficiently.

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