

REVITALIZING ISLAMIC EDUCATION MANAGEMENT THROUGH THE USE OF ARTIFICIAL INTELLIGENCE AT DARUL ISHLAH TULANG BAWANG TARBIYAH COLLEGE OF SCIENCE

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Abstrak: Revolusi Industri 4.0 dan kemajuan teknologi, khususnya Artificial Intelligence (AI), telah membuka peluang baru bagi dunia pendidikan untuk meningkatkan kualitas pembelajaran dan manajemen pendidikan. Namun, lembaga pendidikan Islam seperti Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang dihadapkan pada tantangan kompleks seperti kurikulum yang ketinggalan zaman dan keterbatasan sumber daya. Oleh karena itu, penelitian ini bertujuan untuk mengeksplorasi revitalisasi manajemen pendidikan Islam melalui pemanfaatan AI di Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang. Penelitian ini menggunakan pendekatan kualitatif dengan metode studi kasus. Teknik pengumpulan data yang digunakan adalah observasi partisipatif, wawancara mendalam, dan studi dokumentasi. Observasi partisipatif dilakukan untuk mengamati implementasi AI dalam manajemen pendidikan Islam. Wawancara mendalam dilakukan dengan pihak-pihak terkait seperti pimpinan institusi, dosen, staf, dan mahasiswa. Studi dokumentasi dilakukan untuk menganalisis dokumen-dokumen terkait seperti rencana strategis, kebijakan, dan laporan. Hasil penelitian menunjukkan bahwa implementasi AI dalam manajemen pendidikan Islam di Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang telah meningkatkan efisiensi, personalisasi, dan kualitas proses manajemen serta pembelajaran. Namun, terdapat tantangan seperti resistensi terhadap perubahan, keamanan data, dan privasi informasi. Oleh karena itu, disarankan untuk meningkatkan komitmen dan dukungan dari seluruh pemangku kepentingan, melakukan pelatihan dan pengembangan kapasitas secara intensif, memastikan keamanan data dan mematuhi prinsip-prinsip etika, serta mengintegrasikan nilai-nilai Islam dalam implementasi AI.

Kata kunci: Artificial Intelligence, Manajemen Pendidikan Islam, Revitalisasi, Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang.

Abstract: *The Industry 4.0 revolution and technological advances, such as artificial intelligence (AI), have opened up new opportunities for the world of education to improve the quality of learning and education management. Islamic educational institutions, such as Darul Ishlah Garlic Bone Tarbiyah College of Science, face complex challenges such as outdated curricula and limited resources. As a result, this study aims to investigate how AI can revitalize Islamic education management at Darul Ishlah Garlic Bone Tarbiyah College of Science. The research uses a qualitative approach with case study methods. Data collection techniques used are participatory observations, in-depth interviews, and documentation studies. Participative observations are carried out to observe the implementation of AI in Islamic education management. In-depth interviews are conducted with stakeholders such as institutional heads, lecturers, staff, and students. Documentation studies are done to analyse related documents such as strategic plans, policies, and reports. Research results show that the implementation of AI in Islamic education management at Darul Ishlah Garlic Bone University has improved the efficiency, personalisation, and quality of management and learning processes. However, there are challenges such as resistance to change, data security, and information privacy. As a result, it is recommended that all stakeholders increase their commitment and support, conduct intensive training and capacity development, ensure data security and compliance with ethical principles, and integrate Islamic values into the implementation of AI.*

Keywords: Artificial Intelligence, Islamic Education Management, Revitalization, Tarbiyah College of Science Darul Ishlah Onion Bone

Introduction

The Industry 4.0 revolution has brought significant changes to many aspects of life, including education. Technological advances, such as artificial intelligence (AI), have offered new opportunities to improve the quality of learning and education management. (Selwyn, 2021) (Fauzi & Suharto, 2022). Islamic education is an important aspect of the formation of people's character. However, complex challenges such as outdated curricula and limited resources can hinder progress. Technology can make decisions using data as well as analysing existing data. One of them is through artificial intelligence.

Artificial intelligence is a computer system capable of performing tasks that normally require human intelligence. This action is similar to a human being doing an analysis before making a decision. The desire for situations that enable companies to grow, thrive, and generate reasonable profits is motivated by the concerns that often haunt the minds of businesspeople about the dynamic changes in the industrial environment that are entering the Industry 4.0 revolution..

In this context, the use of artificial intelligence can be an innovative solution for developing and improving the efficiency of Islamic education management, creating a positive transformation in learning and resource management approaches. (Suherman & Anwar, 2020). In this context, Darul Ishlah Garlic Bone University of Tarbiyah Sciences, as an Islamic educational institution under the umbrella of the foundation of Darul Ishlah's nursing home, needs to revitalise its education management by exploiting the potential of artificial intelligence (AI) for both educators and related elements. .

According to (Hashim et al., 2021) (Rahmawati & Hidayat, 2024), the use of artificial intelligence (AI) in education can help improve efficiency, personalisation, and a learning experience that is richer in knowledge enhancement. Besides, artificial intelligence can also help with administrative tasks such as scheduling, resource management, and data analysis (Popenici & Kerr, 2022). The use of artificial intelligence in education can help improve the way students learn by analysing their learning patterns and giving appropriate recommendations. Aside from that, artificial intelligence (AI) can also facilitate administrative tasks such as scheduling and data analysis. (Hakim & Mukhtar, 2021). Thus, artificial intelligence has the potential to improve overall learning efficiency and experience in an educational environment.

Artificial intelligence (AI) can be used to optimise the recruitment process and selection of new students, as well as to analyse academic and non-academic data to provide better support and guidance. Besides, artificial intelligence can also be used in the learning process, such as in developing adaptive learning systems that can optimally adapt learning materials and methods based on Islamic characteristics and artificial intelligence. (Waller & Anderson, 2021).

In implementing artificial intelligence (AI) in the management of Islamic education, Darul Ishlah Garlic Bone Tarbiyah College of Science pays attention to several important aspects. First, there is a need for training

and capacity-building for educators and staff to understand and use artificial intelligence (AI) technologies effectively, and secondly, an adequate technological infrastructure, including hardware, software, and reliable Internet networks, as expressed in research. (Almutairi et al., 2022) The technological infrastructure plays a crucial role in shaping the educational process. The use of artificial intelligence (AI) in education can improve efficiency and the learning experience; however, ethical and data privacy aspects need to be taken into account. For example, in the context of the University of Darul Ishlah, it is important to ensure that the application of artificial intelligence continues to abide by ethical principles and to maintain the privacy of student data as well as the information security of institutions, as reminded by (Rodrigues et al., 2022).

In the context of Islamic education, the use of artificial intelligence must also take into account Islamic values and principles. (Khairil & Falahi, 2023). Therefore, there is a need for collaboration between AI experts and Islamic education experts in designing and developing artificial intelligence (AI) systems that fit the Islamic educational context.

Several studies have demonstrated the benefits and opportunities of using artificial intelligence (AI) in Islamic education management. For example, a study conducted by (Almutairi et al., 2022) found that the use of artificial intelligence in adaptive learning systems can improve the academic achievement and learning motivation of students at Islamic universities in Saudi Arabia. Meanwhile, the study conducted by (Khairil & Falahi, 2023) explored the role of artificial intelligence (AI) in supporting the teaching and learning of the Quran in Islamic educational institutions. Thus, the conclusion of both studies is that the implementation of artificial intelligence technology has the potential to enrich and improve the quality of Islamic education through improved academic achievement and support in the teaching of religious material.

Nonetheless, the implementation of artificial intelligence (AI) in Islamic education management also faces some challenges and obstacles. One of the major challenges is resistance to change and adoption of new technologies, both by teachers and students (Waller & Anderson, 2021). In addition, limited financial resources and technological infrastructure can also be obstacles to implementing artificial intelligence effectively. (Almaiah et al., 2022). Therefore, joint efforts are needed to overcome these obstacles in order to maximise the positive potential of the use of artificial intelligence in the development of Islamic education.

In order to address these challenges, Darul Ishlah Garlic Bone University of Tarbiyah Sciences needs to undertake sustained socialisation and education on the benefits and opportunities of artificial intelligence in Islamic education, as demonstrated by (Zawacki-Richter et al., 2023) Furthermore, there is a need for strong support and commitment from institutional leaders, as well as collaboration with external parties, such as the technology industry and research institutions, to develop artificial intelligence solutions that fit the needs and context of Islamic education (Popenici & Kerr, 2022).

Overall, the revitalization of Islamic education management through the use of artificial intelligence (AI) at Darul Ishlah Garlic Bone Tarbiyah College of Science is a strategic step to improve the quality and effectiveness of Islamic education in today's digital era. By adopting artificial intelligence (AI) technology wisely and paying attention to Islamic ethical principles and values, Islamic educational institutions can harness the potential of artificial intelligence to achieve better educational goals and produce qualified graduates. (Hashim et al., 2021).

Nevertheless, the implementation of artificial intelligence in Islamic education management is not without challenges. There is a need for mature planning and strategy, as well as the support of all stakeholders, to ensure the successful implementation of artificial intelligence. Furthermore, continued research and evaluation are also needed to measure the effectiveness and impact of the use of artificial intelligence in the context of Islamic education, as recommended in the recommendation. (Rodrigues et al., 2022).

By wisely digging up the potential of artificial intelligence (AI) and integrating it with Islamic values, Darul Ishlah University of Arts and Sciences on Garlic Bone can be a pioneer in embedding the latest technology in Islamic education. As an educational institution, it represents a commitment to align technological progress with Islamic values, with a profound positive impact on the formation of the character of future generations.

Method

This research will use a qualitative approach with case study methods. According to (Sugiyono, 2018), case studies are research methods used to investigate phenomena in real-life contexts, especially when the boundary between phenomenon and context is not fully clear. This method was chosen because this research aims to explore and understand in depth the process of revitalizing Islamic education management through the use of artificial intelligence (AI) at Darul Ishlah Garlic Bone Tarbiyah College of Science.

The data collection techniques that will be used are participatory observations, in-depth interviews, and documentation studies. Participatory observations were conducted to directly observe the process of

implementation of artificial intelligence (AI) in the management of Islamic education at Darul Ishlah Garlic Bone Tarbiyah College of Science. In-depth interviews will be conducted with stakeholders, such as institutional leaders, lecturers, staff, and students, to gain a more comprehensive understanding of the experiences, challenges, and opportunities in implementing artificial intelligence (AI) (Creswell & Creswell, 2018). Further, documentation studies will be conducted to analyse related documents, such as strategic plans, policies, reports, and other data relevant to the research. This is done to support and supplement the data obtained from observations and interviews (Sugiyono, 2018). In addition, the research will also use source triangulation and other methods to enhance the validity of the data. (Creswell & Creswell, 2018).

Data analysis in this study will use a qualitative data analysis model from (Miles et al., 2014), which includes data reduction, presentation data, and conclusion drawings. Data reduction is done by sorting and summarising relevant data from various sources. Data presentation is done in the form of narrative descriptions, charts, or diagrams to facilitate understanding and drawing conclusions. Conclusion drawing is done by interpreting data that has been analysed to answer research questions (Sugiyono, 2018).

This research is expected to make a significant contribution to developing knowledge and understanding of the use of artificial intelligence (AI) in Islamic education management. In addition, the findings of this research are also expected to be a reference for Darul Ishlah Tarbiyah University of Science and other Islamic educational institutions in designing and implementing strategies for revitalising Islamic education management through the use of artificial intelligence (AI) effectively and in accordance with Islamic values.

Findings and Discussions

Findings

Based on participatory observations conducted at Darul Ishlah Garlic Bone Tarbiyah College of Science, the process of revitalising Islamic education management through the use of artificial intelligence (AI) has begun since the beginning of the academic year 2022-2023. The institutions have undertaken preparations for technological infrastructure, such as the procurement of artificial intelligence (AI) hardware and software to suit their needs. In addition, training and workshops on AI are also provided to lecturers and staff to improve their understanding and skills in the use of artificial intelligence (AI) technology.

From the results of interviews with the institutional leadership, information is obtained that one of the main objectives of the implementation of artificial intelligence (AI) is to improve the efficiency and quality of education management at Darul Ishlah College of Arts and Sciences of Garlic. Further, interviews with lecturers and staff revealed that the use of artificial intelligence (AI) has helped in the learning process and academic administration. The implemented artificial intelligence (AI) systems can analyse student data, identify learning patterns, and provide recommendations of materials and learning methods that match the characteristics and needs of each student. This enables more personalised and effective learning.

From documentation studies carried out, it was found that Darul Ishlah College of Arts and Sciences has developed policies and guidelines that regulate the use of artificial intelligence (AI) in Islamic education management. The policy emphasises the importance of integrating Islamic values and principles in the implementation of AI, as well as paying attention to ethical aspects and data privacy.

From the results of the triangulation of the data carried out, it was found that the implementation of artificial intelligence (AI) in the management of Islamic education at Darul Ishlah Tarbiyah University of Science has had a positive impact on the efficiency and quality of management processes. Planning, organising, and monitoring processes become more structured and accurate with the help of data analysis and recommendations from artificial intelligence systems. (AI). Moreover, more personalised learning also helps improve student learning performance and motivation. Despite this, the study also identifies some of the challenges and obstacles faced in the implementation of artificial intelligence . (AI). One of the major challenges is the resistance to change and the adoption of new technologies by some lecturers and students. Lack of understanding and skills in using artificial intelligence (AI) is also an obstacle to overcome through sustained training and socialization. Besides, data security and privacy aspects are also major concerns in the use of artificial intelligence (AI). The Darul Ishlah University of Science must ensure that student data and institutions are protected from the risk of privacy violations and data abuse. Therefore, the institution has implemented various security measures and strict data privacy protocols for the use of artificial intelligence (AI).

Based on data analysis with the Miles and Huberman model, it can be concluded that the revitalization of

Islamic education management through the utilisation of AI at Darul Ishlah Garlic Bone University has had a positive impact on improving the efficiency and quality of management and learning processes. However, there are still challenges and obstacles to overcome, such as resistance to change, data security, and privacy. The successful implementation of sustainable artificial intelligence (AI) requires the commitment of all stakeholders, intensive training and socialisation, as well as periodic evaluation and improvement.

Discussion

Revitalising Islamic Education Management through Artificial Intelligence (AI)

The results show that Darul Ishlah Garlic Bone University of Tarbiyah has taken a strategic step in revitalising Islamic education management through the use of artificial intelligence (AI). (Hashim et al., 2021), (Selwyn, 2021) (Nurdin, 2020).

Noting that the implementation of artificial intelligence (AI) in Islamic education management at Darul Ishlah University of Tarbiyah has had a positive impact on the planning, organisation, monitoring, and evaluation processes, With the help of data analysis and recommendations from artificial intelligence (AI) systems, management processes become more structured, accurate, and efficient. (Almaiah et al., 2022) (Popenici & Kerr, 2022). In another sense, the implementation of artificial intelligence (AI) in the management of Islamic education at Darul Ishlah Tarbiyah College of Sciences has had a significant positive impact on the planning, organisation, monitoring, and evaluation stages. Through data analysis and recommendations given by artificial intelligence (AI) systems, management processes become more structured, accurate, and efficient, creating a solid foundation for educational development.

In addition, the use of artificial intelligence (AI) in the learning process has also helped to improve the personalisation and effectiveness of student learning, in particular at STIT Darul Ishlah Cabbage Bone. Artificial intelligence systems implemented can analyse student data, identify learning patterns, and provide recommendations of materials and learning methods that correspond to the characteristics and needs of each student. (Zawacki-Richter et al., 2023) (Almutairi et al., 2022).

The findings of this study are in line with the results of the study. (Almutairi et al., 2022), which reflects that the application of artificial intelligence (AI) in adaptive learning systems can positively affect academic achievement and student learning motivation at Islamic universities in Saudi Arabia. Through a more personalised learning approach, students can experience a deeper learning experience that matches the unique characteristics of their learning style. This affirms the potential of artificial intelligence (AI) in creating a more meaningful and in-depth learning environment for students, strengthening the relevance of learning materials to their individual needs. Although this research demonstrates the positive potential of the implementation of artificial intelligence (AI) at Darul Ishlah Garlic Bone Tarbiyah College of Science, it reveals a number of challenges and obstacles. One of the main obstacles is resistance to change and acceptance of new technologies, particularly by some lecturers and students. The findings are in line with the research. (Waller & Anderson, 2021), Emphasising the importance of training and capacity-building for educators and staff to be able to understand and apply artificial intelligence (AI) technologies effectively. Thus, in order to fully benefit from the implementation of AI, a collective commitment is required to overcome these barriers through strategies that involve cohesion and improved understanding by all stakeholders.

The emerging critical challenges are data security and privacy aspects in the use of artificial intelligence (AI). For example, Darul Ishlah Garlic College of Science must ensure that all student data and institutional information are fully protected from the risk of privacy violations and data abuse. It is important to align this effort with the findings of the research. (Rodrigues et al., 2022), highlighting the urgency of paying special attention to the ethical and privacy aspects of data when integrating artificial intelligence (AI) in the context of education. Through this security and privacy-focused approach, educational institutions can ensure that every step of the implementation of artificial intelligence (AI) is carried out with profound consideration of ethical values and information security.

In the field of Islamic education, the use of artificial intelligence (AI) must always respect and follow the Islamic values and principles underlying the education system. (Rosyadi & Nurhayati, 2023). A real example is seen at Darul Ishlah Garlic Bone Tarbiyah College of Science, which has formulated policies and guidelines that direct the use of artificial intelligence (AI) in Islamic education management. Furthermore, the policy emphasises the importance of integrating Islamic values and principles into the implementation of artificial intelligence (AI). This approach is in line with the findings of research (Khairil & Falahi, 2023), which deeply explores the role of artificial intelligence (AI) in supporting the teaching and learning of the Quran in Islamic educational institutions. Thus, the use of artificial intelligence in Islamic education relies not only on technological advances but also on

wisdom and spirituality in accordance with Islamic teachings.

Despite facing challenges and obstacles, research confirms that the use of artificial intelligence (AI) in revitalising Islamic education management at Darul Ishlah Garlic Bone Tarbiyah College of Science has had a significant positive impact. This result is seen not only in increased efficiency, but also in improved management and learning processes. The findings reflect the continuity of research (Zawacki-Richter et al., 2023), which highlights the potential of artificial intelligence (AI) technology in improving the quality and effectiveness of education. This revitalization is an important milestone in giving a deeper dimension to the development of the Islamic education system through the integration of advanced technology, and it benefits educators, educators, and students at Darul Ishlah Garlic Bone University of Tarbiyah Sciences.

However, the successful implementation of sustainable artificial intelligence (AI) in the context of education requires strong commitment from all stakeholders, in-depth training, and intensive socialisation related to the change. Furthermore, periodic evaluation and improvement are also important elements in ensuring the effectiveness and sustainability of the use of artificial intelligence (AI). The recommendations put forward by (Almaiah et al., 2022) highlighted the importance of careful planning and strategy, accompanied by the full support of all stakeholders, as the key to ensuring the successful integration of artificial intelligence (AI) into the world of education.

Furthermore, more research is needed to deepen the long-term implications of the use of artificial intelligence in the management of Islamic education. It is also necessary to identify best practices and potential new challenges that may emerge over time. This thought is in line with the recommendations of (Rodrigues et al., 2022), which highlighted the need for continuous research and evaluation to comprehensively measure the effectiveness and impact of the use of artificial intelligence in the context of Islamic education. This action will provide a deeper and more useful insight to shape positive developments in the implementation of artificial intelligence (AI) technology in the Islamic educational environment.

Holistically, the application of artificial intelligence (AI) in the management of Islamic education at Darul Ishlah Tarbiyah College of Sciences is a smart step in line with the demands of the digital age. By wisely integrating artificial intelligence (AI) technology while upholding Islamic ethical principles and values, Islamic educational institutions are able to optimise the potential of artificial intelligence for higher educational goals and produce graduates who are not only academically qualified but also moral and responsible (Hashim et al., 2021) (Almutairi et al., 2022).

The success of the implementation of artificial intelligence (AI) in the context of Islamic education is determined not only by technological progress but also by other factors involving human resources, organisational culture, and policy support (Aziz & Fatimah, 2022) (Azhari & Mulyani, 2023). Therefore, a holistic approach involving all stakeholders is needed to ensure that the use of artificial intelligence (AI) is not only technically effective, but also consistent with the values and principles of Islamic education (Waller & Anderson, 2021) (Khairil & Falahi, 2023). In addition, serious efforts are needed to improve the literacy of artificial intelligence (AI) among educators, students, and the general public. The aim is to form a deeper understanding of the potential, challenges, and ethical implications of the use of artificial intelligence (AI) in education. (Huda & Jamil, 2024). With this deeper understanding, misunderstandings and resistance to new technologies are expected to be avoided. The success of the implementation of artificial intelligence (AI) in education depends not only on technological progress but also on the awareness and intellectual readiness of the public in the face of this profound change (Popenici & Kerr, 2022) (Zawacki-Richter et al., 2023).

Furthermore, close cooperation and partnerships with other educational institutions, the technology industry, and research institutions are key to supporting the growth and implementation of artificial intelligence (AI) in the management of sustainable Islamic education (Mahfudh, 2021). Through this synergy, opportunities are opened for an in-depth exchange of knowledge, resources, and best practices, which can substantially optimise the role and positive impact of artificial intelligence (AI) in the context of Islamic education (Almaiah et al., 2022) (Rodrigues et al., 2022). Kolaborasi semacam ini bukan hanya mengatasi tantangan teknis, tetapi juga memperkaya pemahaman bersama mengenai penerapan Artificial Intelligence (AI) yang lebih holistik dan memberikan kontribusi berkelanjutan terhadap pengembangan sistem pendidikan Islam.

This kind of collaboration not only addresses technical challenges, but also enriches a common understanding of the more holistic application of artificial intelligence (AI) and contributes sustainably to the development of the Islamic education system.

By exploiting the potential of artificial intelligence wisely and in harmony with Islamic values, Darul Ishlah Garlic Bone Tarbiyah University of Science can play an important role as a pioneer in integrating the latest technology with Islamic education. Research findings highlighting increased academic achievement and student

learning motivation, as revealed by (Almutairi et al., 2022), and the exploration of the role of artificial intelligence (AI) in supporting the teaching of the Quran by (Khairil & Falahi, 2023), confirm the urgency of this adaptation.

Integrating artificial intelligence (AI) technology with Islamic values is not only about advancing education technologically, but also about forming a young generation with strong moral and spiritual wisdom in line with the teachings of Islam. When the Darul Ishlah Garlic Bone Tarbiyah College of Science leads this change, not only the knowledge and skills of the digital age will be emphasised, but also the profound and urgent Islamic values to prepare a generation capable of facing the challenges of the age with integrity and spiritual firmness.

Conclusion

This study reveals a variety of relevant findings about the implementation of character education at Syubbanul Wathon High School in Magelang, this study reveals a variety of relevant findings. Through the results of interviews, observations, and surveys of the library studies, it is seen that the involvement of various stakeholders, such as teachers, the head of school, management staff, and the community, is key in the efforts to strengthen character education. The role of leadership in setting a consistent example of character values has also proved to be crucial. Nevertheless, challenges such as resource constraints and the involvement of parents in supporting the programme become obstacles to overcome. More holistic evaluations also focus on measuring the impact of programs in a comprehensive manner.

The conclusion emphasises the importance of all-party involvement, strong leadership roles, as well as improved strategies and evaluations as essential steps towards greater success in character education programmes in the school environment. The study explores the revitalization of Islamic education management through the use of artificial intelligence (AI) at Darul Ishlah Garlic College of Sciences. The results of the research show that the implementation of artificial intelligence has had a positive impact on improving the efficiency, personalisation, and quality of management and learning processes. The planning, organisation, monitoring, and evaluation processes have become more structured and accurate with the help of data analysis and recommendations from the AI system. More adaptive learning also improves students academic performance and learning motivation. Nonetheless, the study also identifies challenges and obstacles in the implementation of artificial intelligence (AI), such as resistance to change by some lecturers and students, data security, and information privacy. Therefore, joint efforts are needed to overcome such obstacles, such as sustained training and socialisation, as well as compliance with ethical principles and data privacy.

Moreover, the integration of Islamic values and principles into the implementation of artificial intelligence (AI) is an important aspect to be taken into account. For the success of the sustained implementation of artificial intelligence (AI) in the management of Islamic education, it is recommended that the Darul Ishlah University of Arts and Sciences undertake the following efforts: (1) Increase the commitment and support of all stakeholders, including institutional leaders, faculty, staff, and students; (2) provide intensive training and capacity development for educators and staff to improve their understanding and skills in using AI technology; (3) ensure data security and comply with ethical principles and data privacy in the use of AI; (4) integrate Islamic values and principles in implementing AI and involve Islamic educational experts in the development process; and (5) periodically carry out evaluations and improvements to measure the effectiveness and impact of AI use in the Islamic context of education.

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