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Revitalization of Islamic Education Management through the Use of Artificial Intelligence at Darul Ishlah Tarbiyah College of Onion Bones

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The Industrial Revolution 4.0 and technological advances, especially Artificial Intelligence (AI), have opened up new opportunities for education to improve the quality of learning and education management. However, Islamic education institutions such as the Darul Ishlah Tulang Bawang College of Tarbiyah are faced with complex challenges such as outdated curriculum and limited resources. Therefore, this study aims to explore the revitalization of Islamic education management through the utilization of AI at the Darul Ishlah Tulang Bawang College of Tarbiyah. This research uses a qualitative approach with a case study method. The data collection techniques used were participatory observation, in-depth interviews, and documentation studies. Participatory observation was conducted to observe the implementation of AI in Islamic education management. In-depth interviews were conducted with relevant parties such as institutional leaders, lecturers, staff, and students. Documentation studies were conducted to analyze related documents such as strategic plans, policies, and reports. The results showed that the implementation of AI in Islamic education management at Darul Ishlah Tulang Bawang College of Tarbiyah has improved the efficiency, personalization, and quality of management and learning processes. However, there are challenges such as resistance to change, data security, and information privacy. Therefore, it is recommended to increase commitment and support from all stakeholders, conduct intensive training and capacity building, ensure data security and adhere to ethical principles, and integrate Islamic values in AI implementation.

1. Introduction

The Industrial Revolution 4.0 has brought significant changes in various aspects of life, including in the world of education. Technological advances, especially 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 in the formation of the character of the Ummah. However, complex challenges such as outdated curricula and limited resources can hinder progress. In this context, the use of artificial intelligence can be an innovative solution to develop and improve the efficiency of Islamic education management, creating a positive transformation in learning approaches and resource management (Suherman & Anwar, 2020). In this context, Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang, as an Islamic educational institution, needs to revitalize its education management by utilizing the potential of AI.

According to (Hashim et al., 2021) (Rahmawati & Hidayat, 2024), the use of AI in education can help improve efficiency, personalization, and richer learning experiences. AI systems can analyze student data, identify learning patterns, and provide appropriate feedback and recommendations. In addition, AI can also help in administrative tasks, such as scheduling, resource management, and data analysis (Popenici & Kerr, 2022). The use of artificial intelligence (AI) in education can help improve the way students learn by analyzing their learning patterns and providing recommendations accordingly. In addition, AI can also simplify administrative tasks, such as scheduling and data analysis (Hakim & Mukhtar, 2021). Thus, AI brings the potential to improve efficiency and overall learning experience in an educational environment.

In the context of Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang, the use of AI can be done in various aspects of Islamic education management. For example, AI can be used to optimize the recruitment and selection process of prospective new students, as well as analyze academic and non-academic data to provide better support and guidance. In addition, AI can also be utilized in the learning process, such as developing adaptive learning systems that can adjust learning materials and methods based on the characteristics and learning preferences of each student (Zawacki-Richter et al., 2023). This can increase the effectiveness and quality of learning, and support the optimal achievement of Islamic education goals (Waller & Anderson, 2021).

In implementing AI in Islamic education management, Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang pays attention to several important aspects. First, there needs to be

training and capacity building for educators and staff to understand and use AI technology effectively. Second, adequate technological infrastructure is needed, including hardware, software, and reliable internet networks as stated by research (Almutairi et al., 2022) that technological infrastructure is very influential in the educational process. In addition, aspects of ethics and data privacy must also be considered in the use of AI. Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang needs to ensure that the use of AI does not violate the principles of ethics and data privacy, as well as maintain the security and integrity of student and institutional data. The use of artificial intelligence (AI) in education can improve efficiency and learning experience, however, it is necessary to pay attention to ethical aspects and data privacy. For example, in the context of Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang, it is important to ensure that the application of AI still complies with ethical principles and maintains student data privacy and institutional information security, as reminded by (Rodrigues et al., 2022).

In the context of Islamic education, the use of AI must also pay attention to Islamic values and principles. The AI system used must be in line with Islamic teachings and not contradict religious norms (Khairil & Falahi, 2023). Therefore, there is a need for collaboration between AI experts and Islamic education experts in designing and developing AI systems that are appropriate to the context of Islamic education.

Several studies have shown the benefits and opportunities of utilizing AI in Islamic education management. For example, research conducted by (Almutairi et al., 2022) found that the use of AI in adaptive learning systems can improve academic achievement and student motivation at Islamic Universities in Saudi Arabia. Meanwhile, a study conducted by (Khairil & Falahi, 2023) explores the role of AI in supporting the teaching and learning of the Quran in Islamic educational institutions. Thus, the conclusion of these two studies is that the implementation of AI technology has the potential to enrich and improve the quality of Islamic education through increased academic achievement and support in teaching religious materials.

Nonetheless, the implementation of AI in Islamic education management also faces several challenges and obstacles. One of the main challenges is resistance to change and adoption of new technology, both on the part of educators and students (Waller & Anderson, 2021). In addition, limited financial resources and technological infrastructure can also be obstacles in implementing AI effectively (Almaiah et al., 2022). Therefore, joint efforts are needed to overcome these obstacles in order to maximize the positive potential of using AI in the development of Islamic education.

To overcome these challenges, Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang

needs to conduct continuous socialization and education about the benefits and opportunities of using AI in Islamic education as revealed by (Zawacki-Richter et al., 2023) that training on the use of AI to all citizens of institutional institutions. In addition, there needs to be strong support and commitment from institutional leaders, as well as collaboration with external parties, such as the technology industry and research institutions, to develop AI solutions that suit the needs and context of Islamic education (Popenici & Kerr, 2022).

Overall, the revitalization of Islamic education management through the use of AI at Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang is a strategic step to improve the quality and effectiveness of Islamic education in today's digital era. By adopting AI technology wisely and paying attention to the principles of Islamic ethics and values, Islamic educational institutions can harness the potential of AI to achieve better educational goals and produce quality graduates (Hashim et al., 2021).

Nevertheless, the implementation of AI in Islamic education management is not without its challenges. There needs to be careful planning and strategy, as well as support from all stakeholders, to ensure the success of AI implementation. In addition, continuous research and evaluation are also needed to measure the effectiveness and impact of utilizing AI in the context of Islamic education as recommended from the advice (Rodrigues et al., 2022).

By wisely exploring the potential of artificial intelligence (AI) and integrating it with Islamic values, Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang can be a pioneer in assembling the latest technology with Islamic education. This step will not only shape the younger generation with knowledge and skills in the digital age, but also create a solid moral and spiritual foundation in accordance with Islamic teachings. As an educational institution, this step illustrates a commitment to align technological advances with Islamic values, bringing a profound positive impact on the character formation of future generations.

2. Research Method

This research will use a qualitative approach with a case study method. According to (Sugiyono, 2018), case studies are research methods used to investigate phenomena in real-life contexts, especially when the boundaries between phenomena and contexts are not entirely clear. This method was chosen because this study aims to explore and understand in depth the process of revitalizing Islamic education management through the use of Artificial Intelligence (AI) at the Darul Ishlah Tulang Bawang Tarbiyah College of Sciences.

Data collection techniques to be used are participatory observation, in-depth interviews, and

documentation studies. Participatory observations were conducted to directly observe the process of implementing AI in Islamic education management at Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang. In-depth interviews will be conducted with the parties involved, such as institutional leaders, lecturers, staff, and students, to gain a more comprehensive understanding of the experiences, challenges, and opportunities in implementing AI (Creswell & Creswell, 2018). Furthermore, documentation studies will be conducted to analyze related documents, such as strategic plans, policies, reports, and other data relevant to this research. This is done to support and complement the data obtained from observations and interviews (Sugiyono, 2018). In addition, this study will also use triangulation of sources and methods to improve the validity of the data (Creswell & Creswell, 2018).

Data analysis in this study will use qualitative data analysis models from (Miles et al., 2014), which include data reduction, data presentation, and conclusions. Data reduction is done by sorting and summarizing relevant data from various sources. The presentation of data is carried out in the form of narrative descriptions, charts, or diagrams to facilitate understanding and drawing conclusions. Conclusions are drawn by interpreting the data that has been analyzed to answer research questions (Sugiyono, 2018).

This research is expected to make a significant contribution in developing knowledge and understanding of the use of AI in Islamic education management. In addition, the findings of this study are also expected to be a reference for the Darul Ishlah Tulang Bawang Tarbiyah College and other Islamic educational institutions in designing and implementing strategies for revitalizing Islamic education management through the use of AI effectively and in accordance with Islamic values.

3. Result and Discussion

Based on participatory observations made at the Darul Ishlah Tulang Bawang Tarbiyah College of Sciences, the process of revitalizing Islamic education management through the use of Artificial Intelligence (AI) has begun since the beginning of the 2022/2023 academic year. The institution has made preparations for technological infrastructure, such as the procurement of AI hardware and software according to needs. In addition, training and workshops on AI are also provided to lecturers and staff to improve understanding and skills in using AI technology.

From interviews with institutional leaders, information was obtained that one of the main

objectives of AI implementation is to improve the efficiency and quality of education management at Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang. Institutional leaders believe that by harnessing the potential of AI, management processes such as planning, organizing, supervising, and evaluating can be carried out better and more accurately. Furthermore, interviews with lecturers and staff revealed that the utilization of AI has helped in the learning process and academic administration. The AI system implemented can analyze student data, identify learning patterns, and provide recommendations for materials and learning methods that suit the characteristics and needs of each student. This allows for more personalized and effective learning.

From the documentation study conducted, it was found that the Darul Ishlah Tulang Bawang Tarbiyah College has compiled policies and guidelines governing the use of AI in Islamic education management. The policy emphasizes the importance of integrating Islamic values and principles in the implementation of AI, as well as paying attention to ethical aspects and data privacy. In addition, the guidance also covers standard operating procedures for the use of AI in various educational management processes.

From the results of data triangulation carried out, it was found that the implementation of AI in Islamic education management at the Darul Ishlah Tulang Bawang Tarbiyah College of Science has had a positive impact on the efficiency and quality of the management process. The process of planning, organizing, and supervising becomes more structured and accurate with the help of data analysis and recommendations from AI systems. In addition, more personalized learning also helps increase student achievement and motivation.

Nonetheless, the study also identified some of the challenges and obstacles faced in AI implementation. One of the main challenges is resistance to change and adoption of new technologies from some lecturers and students. Lack of understanding and skills in using AI is also an obstacle that must be overcome through continuous training and socialization. In addition, aspects of data security and privacy are also major concerns in the use of AI. Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang needs to ensure that student and institutional data is protected from the risk of privacy violations and data misuse. Therefore, institutions have implemented various security measures and strict data privacy protocols in the use of AI.

Based on data analysis with the Miles and Huberman model, it can be concluded that the revitalization of Islamic education management through the use of AI at the Darul Ishlah

Tulang Bawang Tarbiyah College has had a positive impact in 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. For the successful implementation of sustainable AI, commitment from all stakeholders is needed, intensive training and socialization, and periodic evaluation and improvement.

Research Discussion

The results showed that Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang has taken a strategic step in revitalizing Islamic education management through the use of Artificial Intelligence (AI). This is in line with the global trend in education that increasingly utilizes the potential of AI to improve efficiency, personalization, and quality of learning (Hashim et al., 2021), (Selwyn, 2021) (Nurdin, 2020).

Paying attention to the implementation of AI in Islamic education management at Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang has had a positive impact on the process of planning, organizing, supervising, and evaluating. With the help of data analysis and recommendations from 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 Islamic education management at Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang has brought significant positive impacts at the planning, organizing, supervising, and evaluating stages. Through data analysis and recommendations provided by AI systems, management processes become more structured, accurate, and efficient, creating a solid foundation for educational development. These results reflect AI's contribution in improving the quality of Islamic education management, creating a more adaptive and competitive learning environment.

In addition, the use of AI in the learning process has also helped improve the personalization and effectiveness of student learning, especially at STIT Darul Ishlah Tulang Bawang. The AI system implemented can analyze student data, identify learning patterns, and provide material recommendations and learning methods that suit the characteristics and needs of each student (Zawacki-Richter et al., 2023) (Almutairi et al., 2022).

The findings from this study align with the results of the study (Almutairi et al., 2022), which reflect that the application of artificial intelligence (AI) in adaptive learning systems can positively affect the academic achievement and learning motivation levels of students at Islamic universities in Saudi Arabia. Through a more personalised approach to learning,

students can experience a more immersive learning experience that matches the unique characteristics of their learning style. This confirms the potential of AI in creating a more meaningful and immersive learning environment for students, reinforcing the relevance of learning materials to their individual needs.

Although this research proves the positive potential of implementing artificial intelligence (AI) at Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang, it also reveals a number of challenges and obstacles faced. One of the main obstacles lies in resistance to change and acceptance of new technologies, especially from some lecturers and students. This finding is in line with research (Waller & Anderson, 2021), which emphasizes the importance of training and capacity building for educators and staff to be able to understand and apply AI technology effectively. Thus, to reap the full benefits of AI implementation, collective commitment is needed to overcome these barriers through strategies that involve engaging and increasing understanding of all relevant parties.

The critical challenge that arises is the aspect of data security and privacy in the use of AI. For example, Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang must ensure that all student data and institutional information are fully protected from the risk of privacy violations and data misuse. It is important to align these efforts with findings from research (Rodrigues et al., 2022), which highlight the urgency of paying special attention to ethical aspects and data privacy when integrating AI in educational contexts. Through this security- and privacy-focused approach, educational institutions can ensure that every step of AI implementation is done with deep consideration of ethical values and information security.

In the realm of Islamic education, the use of artificial intelligence (AI) must always respect and follow the Islamic values and principles that underlie the education system (Rosyadi & Nurhayati, 2023). A clear example is seen at Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang, which has formulated policies and guidelines that direct the use of AI in Islamic education management. Furthermore, the policy stresses the importance of integrating Islamic values and principles in the implementation of AI. This approach is in line with research findings (Khairil & Falahi, 2023), which deeply explore the role of AI in supporting Quran teaching and learning in Islamic educational institutions. Thus, the use of AI in the context of Islamic education does not only rely on technological advances, but also relies on wisdom and spirituality in accordance with Islamic teachings.

Although faced with challenges and obstacles, research confirms that the use of artificial

intelligence (AI) in the revitalization of Islamic education management at Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang produces a significant positive impact. This result is not only seen in the improvement of efficiency, but also in the improvement of the quality of management and learning processes. These findings reflect the continuity of research (Zawacki-Richter et al., 2023), which highlights the potential of 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.

However, for the successful implementation of sustainable artificial intelligence (AI) in the context of education, strong commitment from all relevant parties is needed, in-depth training, and intensive socialization related to these changes. In addition, regular evaluation and improvement are also important elements in ensuring the effectiveness and sustainability of AI use. The recommendations put forward by (Almaiah et al., 2022) highlight the importance of careful planning and strategy, accompanied by full support from all stakeholders, as the key to ensuring the successful integration of AI in education.

In addition, further research is needed to explore the long-term implications of the use of artificial intelligence in Islamic education management. It is also necessary to identify best practices and potential challenges that may arise over time. This thinking is in line with the recommendations of (Rodrigues et al., 2022), which highlight the need for continuous research and evaluation to thoroughly measure the effectiveness and impact of using artificial intelligence in the context of Islamic education. This action will provide deeper and useful insights to shape positive developments in the implementation of AI technology in the Islamic education environment.

Holistically, the application of artificial intelligence (AI) in Islamic education management at Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang marks a smart move and in accordance with the demands of the digital age. By wisely integrating AI technology, while upholding the principles of Islamic ethics and values, these Islamic educational institutions are able to optimize the potential of AI to achieve nobler 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 successful implementation of artificial intelligence (AI) in the context of Islamic education is not only determined by technological advances, but also influenced by other factors

involving human resources, organizational 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 AI is not only technically effective, but also in line with the values and principles of Islamic education (Waller & Anderson, 2021) (Khairil & Falahi, 2023). A deep understanding of this dynamic shows that the implementation of AI technology in Islamic education is a manifestation of the synergy between technological progress and the integrity of educational values.

In addition, serious efforts are needed to improve AI literacy among educators, students, and society in general. The goal is to form a deeper understanding of the potential, challenges, and ethical implications of utilizing AI in education (Huda & Jamil, 2024). Through this deeper understanding, it is hoped that misunderstandings and resistance to new technologies can be avoided. The successful implementation of AI in education depends not only on technological developments, but also on people's intellectual awareness and readiness in the face of these profound changes (Popenici & Kerr, 2022) (Zawacki-Richter et al., 2023).

Furthermore, close cooperation and partnerships with other educational institutions, technology industries, and research institutions are the main keys in supporting the growth and implementation of artificial intelligence (AI) in sustainable Islamic education management (Mahfudh, 2021). Through this synergy, opportunities are opened for in-depth exchange of knowledge, resources, and best practices, which can substantially optimize the role and positive impact of AI in the context of Islamic education (Almaiah et al., 2022) (Rodrigues et al., 2022). This kind of collaboration not only addresses technical challenges, but also enriches a shared understanding of the more holistic application of AI and contributes continuously to the development of Islamic education systems.

By utilizing the potential of artificial intelligence wisely and in line with Islamic values, Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang can play an important role as a pioneer in integrating the latest technology with Islamic education. Research findings highlighting the improvement of academic achievement and student learning motivation, as revealed by (Almutairi et al., 2022), and the exploration of the role of AI in supporting the teaching of the Quran by (Khairil & Falahi, 2023), confirm the urgency of this adaptation.

Integrating AI technology with Islamic values is not only about advancing education technologically, but also about forming a young generation who have strong moral and spiritual wisdom in accordance with Islamic teachings. As Sekolah Tinggi Ilmu Tarbiyah Darul

Ishlah Tulang Bawang leads this change, it is not only knowledge and skills in the digital age that will be emphasized, but also deep Islamic values and urgency to prepare a generation capable of facing the challenges of the times with integrity and spiritual firmness.

4. Conclusion

This research explores the revitalization of Islamic education management through the use of Artificial Intelligence (AI) at Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang. The results showed that the implementation of AI has had a positive impact in improving the efficiency, personalization, and quality of management and learning processes. The process of planning, organizing, supervising, and evaluating becomes more structured and accurate with the help of data analysis and recommendations from AI systems. More adaptive learning also increases academic achievement and student motivation.

However, the study also identified challenges and barriers to AI implementation, such as resistance to change from some lecturers and students, data security, and information privacy. Therefore, joint efforts are needed to overcome these obstacles, such as ongoing training and socialization, as well as adherence to ethical principles and data privacy. In addition, the integration of Islamic values and principles in the implementation of AI is an important aspect that needs attention.

For the successful implementation of sustainable AI in Islamic education management, it is recommended that Sekolah Tinggi Ilmu Tarbiyah Darul Ishlah Tulang Bawang make the following efforts: (1) Increase commitment and support from all stakeholders, including institutional leaders, lecturers, staff, and students; (2) Conduct intensive training and capacity building for educators and staff to improve 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 the implementation of AI and involve Islamic education experts in the development process; (5) Conduct periodic evaluations and improvements to measure the effectiveness and impact of using AI in the context of Islamic education.

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