



PERFORMANCE EVALUATION OF ISLAMIC ARTIFICIAL INTELLIGENCE IN THE MUSLIM PRO APPLICATION: A SYSTEMATIC REVIEW

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ABSTRACT

This research aims to examine the performance of Islamic AI in the Muslim Pro Application in providing accurate answers related to Islamic teachings. This literature study analyzes various previous studies that evaluated the ability of the Muslim Pro Application to deliver correct and reliable information to users. The main focus of this research is to assess the accuracy of answers provided by the Islamic AI of the Muslim Pro Application and compare them with traditional sources of religious knowledge, such as Islamic scholars and texts. Findings indicate that the Islamic AI of the Muslim Pro application is capable of providing sufficiently accurate answers to basic questions about Islam. However, there are shortcomings in handling more complex questions, which require further verification from more authoritative sources. The study also found that most users are satisfied with the accuracy of the answers provided, but there is a need for further improvement, especially in terms of the depth and detail of the answers. This research recommends further development of AI algorithms and collaboration with Islamic scholars to improve the quality of answers provided by the Islamic AI of the Muslim Pro Application.

Keywords: Islamic Muslim Pro Application, Islam, Literature Study

INTRODUCTION

Artificial intelligence (AI) technology has brought about a revolution in various aspects of human life, including in the religious domain. One Islamic application that utilizes this technology is Muslim Pro, designed to help Muslims lead their religious lives more easily (Zaini Miftach, 2023). Muslim Pro offers various features such as prayer times, call to prayer (Adhan), Qibla direction, community, Tasbih (prayer beads), nearby mosques, nearby halal places, Islamic Hijri calendar, the 99 Names of Allah (Asmaul Husna), Shahadah recitation, Zakat calculator, daily inspiration, news and media, supplications, messages, live Mecca broadcast, popular verses, and AI Muslim Pro that can answer questions related to Islamic teachings (Sukma et al., 2019). This Islamic AI feature of the Muslim Pro Application is designed to provide quick and accurate answers, replacing or complementing the role of traditional sources such as Islamic scholars and religious texts.

As technology advances, the need for quick and easily accessible information is increasing (Yahya et al., 2023). In the midst of fast-paced lifestyles, many people seek instant answers to their religious questions. The Islamic AI of the Muslim Pro Application is here to meet this need by offering instant answers that can be accessed anytime and anywhere. However, there are significant challenges regarding the accuracy and reliability of answers provided by this Muslim Pro Application. In the context of religion, where information accuracy is crucial, errors in providing answers could have serious consequences and lead to misunderstandings.

Traditional sources such as Islamic scholars and religious texts have long been the primary reference for Muslims seeking answers to religious questions. Scholars, with their deep knowledge and experience, are able to provide comprehensive and trustworthy answers. Islamic texts, containing teachings and interpretations that have stood the test of time, also provide clear and authoritative guidance. Therefore, it is important to evaluate the extent to which the Islamic AI of the Muslim Pro Application can provide answers as accurate and comprehensive as these traditional sources.

The main problem faced by the Islamic AI of the Muslim Pro Application is how to ensure that the answers provided are accurate and in accordance with Islamic teachings. Although AI has great potential in processing and delivering information, this technology still relies on the data used to train it. If the data is inaccurate or incomplete, then the answers provided by the Muslim Pro Application will also be affected. Additionally, the Muslim Pro Application may struggle in handling more complex questions that require in-depth interpretation or specific cultural and historical context.

Besides accuracy, there are other aspects to consider, namely relevance and user satisfaction. Users expect answers that are not only accurate but also relevant to the context of their questions. User satisfaction is an important indicator for assessing the success of a technology. If users are

satisfied with the answers provided by the Muslim Pro Application, then the technology can be considered successful in achieving its goals.

The success of the Islamic AI of the Muslim Pro Application in providing accurate answers greatly depends on the quality of data used to train it. High-quality and comprehensive data can help the Muslim Pro Application provide more accurate and relevant answers. Therefore, Muslim Pro Application developers must work with religious experts and use recognized sources to ensure that the data used is accurate and reliable.

Several previous studies have evaluated the performance of AI in religious contexts. For example, some studies show that AI can be used to support religious education and understanding, but the main challenge is ensuring the accuracy and relevance of the answers provided. Other research indicates that user satisfaction heavily depends on the accuracy of information provided by AI. In the context of Muslim Pro, this research will explore how this Muslim Pro Application is designed and implemented, as well as the extent of accuracy and relevance of the answers provided.

Moreover, there are ethical challenges that must be considered in the development and use of AI in religious contexts. The Muslim Pro Application must be designed with consideration for the values and principles respected by Muslims. Errors or misuse of AI in this context can lead to controversy and damage user trust in the technology. Therefore, AI developers must work with religious communities to ensure that the Muslim Pro Application is designed and used in a way that respects and supports religious teachings.

This research is expected to make a significant contribution to academic literature in the fields of AI technology and religious studies. By choosing this title, this research focuses on important and relevant aspects in both fields, offering an in-depth and comprehensive analysis of the performance of the Muslim Pro Application in providing answers about Islamic teachings.

RESEARCH METHODOLOGY

The research method used to evaluate the performance of the Islamic AI in the Muslim Pro Application in providing accurate answers about Islamic teachings. This research uses a comprehensive literature study method, which includes collecting, analyzing, and synthesizing information from various relevant sources. This section also includes an explanation of data collection techniques, data analysis techniques, and findings validation procedures.

Data Sources

Data sources used in this research include:

1. **Journal Articles:** Articles published in scientific journals related to artificial intelligence, Islamic studies, and information technology.
2. **Books:** Books discussing AI development, AI applications in religious contexts, and Islamic studies.

3. **Research Reports:** Research reports published by academic institutions and research organizations.
4. **Online Sources:** Credible online sources, such as official websites, scientific articles, and conference papers.

Source Selection Criteria

Selected sources must meet the following criteria:

1. **Relevance:** Sources must be relevant to the research topic, namely the performance of Islamic AI in the Muslim Pro Application in providing answers about Islamic teachings.
2. **Credibility:** Sources must come from trusted and recognized publications in their field.
3. **Currency:** Sources used should be as recent as possible to ensure that the information obtained aligns with the latest developments in AI technology and Islamic studies.

Data Collection Technique

Data is collected through searches in various academic databases and digital libraries using relevant keywords, such as "Muslim Pro Application", "Muslim Pro", "accuracy", "artificial intelligence in religion", and other combinations. Databases used include Google Scholar, PubMed, IEEE Xplore, and other digital libraries.

Data Analysis Technique

Data Categorization and Organization

Collected data is then categorized and organized based on relevant topics and themes. Some main categories used in the analysis include:

- **Accuracy of Muslim Pro Application Answers:** Evaluation of the accuracy of answers provided by the Muslim Pro Application in the context of Islamic teachings.
- **Comparison with Traditional Sources:** Comparison between answers from the Muslim Pro Application and answers from traditional sources such as Islamic scholars and Islamic texts.
- **User Satisfaction:** Analysis of the level of user satisfaction with the answers provided by the Muslim Pro Application.

Analysis Techniques

- **Thematic Analysis:** This technique is used to identify main themes that emerge from the reviewed literature.
- **Comparative Analysis:** This technique is used to compare answers provided by the Muslim Pro Application with answers from traditional sources.

- **Meta-Analysis:** If adequate quantitative data is available, meta-analysis techniques are used to combine results from various studies to obtain stronger conclusions.

Findings Validation

Peer Review

Research results and main findings will be validated through a peer review process. This process involves reviews from experts in the fields of AI technology and Islamic studies to ensure that the analysis and conclusions made are accurate and reliable.

Expert Consultation

In addition to peer review, consultation with experts is also conducted to gain additional insights and validation of research findings. Experts consulted include Islamic scholars, AI experts, and researchers in the field of religious technology.

RESEARCH RESULTS

In the context of using the Islamic AI Muslim Pro Application to provide answers about Islamic teachings, the accuracy of information provided by this technology becomes crucial. This research evaluates the accuracy of the Muslim Pro Application in several main aspects, such as prayer times, Qibla direction, worship procedures, and interpretation of Quranic verses. The following is an analysis based on data from various relevant literature sources.

1. Prayer Times and Qibla Direction

The Islamic AI Muslim Pro Application is often relied upon by users to provide information about accurate prayer times and Qibla direction. Various studies show that the Muslim Pro Application can provide this information with a high level of accuracy (Qistina, 2022). Based on the applied algorithm, the Muslim Pro Application is able to calculate prayer times accurately based on the user's location, as well as determine the Qibla direction using sensors in supporting devices (Qistina, 2022).

However, this accuracy also depends on the available input data, such as geographic coordinates or precise time settings. Further research shows that when location data or sensors are inaccurate or disrupted, the Muslim Pro Application may provide less accurate information, although in most cases, this does not often occur with advanced technology.



Picture 1. Prayer Platform



Picture 2. Prayer Platform

2. Worship Procedures

In daily religious practices, users of the Muslim Pro Application often seek guidance on worship procedures such as how to perform prayers, fasting, zakat, and hajj. Literature studies show that the Muslim Pro Application can provide fairly complete and accurate guidance on these worship procedures. The information provided tends to be in accordance with Islamic teachings generally accepted by the majority of Muslims.



Picture 3. Menu of Muslim Pro Application

However, the accuracy of the Muslim Pro Application in providing this guidance can also be influenced by the quality of content and data used in its development. The Muslim Pro Application tends to be better at providing clear and direct answers related to standard worship procedures. When facing uncommon questions or situations that require deeper interpretation, the Muslim Pro Application's performance may decline (Rohmawaty et al., 2023).

3. Interpretation of Quranic Verses

The Islamic AI Muslim Pro Application is also used to provide interpretation or tafsir of Quranic verses. Research shows that the Muslim Pro Application can provide quite varied interpretations depending on the data sources and algorithms used. The Muslim Pro Application tends to provide very literal interpretations related to generally accepted interpretations in Islamic literature.

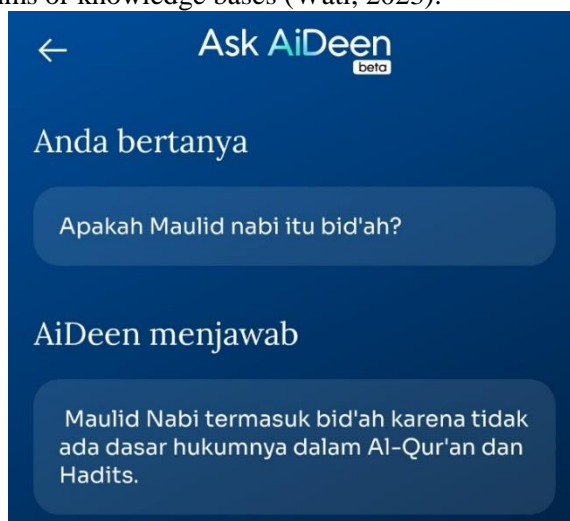
However, in the case of complex verses or those requiring a deep understanding of historical and cultural contexts, the accuracy of

the Muslim Pro Application can be questioned. Some users say that the Muslim Pro Application has limitations in providing in-depth interpretations or in specific contexts.

4. Variability of Accuracy Based on Question Complexity

One important finding in this research is that the accuracy of the Muslim Pro Application tends to vary depending on the complexity of the questions asked and the availability of input data. Simple and general questions tend to be answered with a high degree of accuracy by the Muslim Pro Application, especially if the answers can be obtained from data available in the Muslim Pro Application's knowledge base (Rohmawaty et al., 2023).

However, when faced with questions that require deep understanding or complex interpretation, the Muslim Pro Application may experience difficulties in providing satisfactory answers. For example, questions about controversial religious issues or situations that require moral and ethical judgments often require more than just algorithms or knowledge bases (Wati, 2023).



Picture 4. Ask AiDeen

One of the answers from Ask AiDeen about the Prophet's Mawlid being bid'ah is supported by Ibn Taymiyyah's opinion that the celebration of Mawlid is a bid'ah practice. The celebration is not allowed because the Salaf group did not celebrate it and there is no textual source that allows this practice (Farid & Sharif, 2017). Meanwhile, some scholars and Muslim groups do allow this celebration for reasons: (1) As an expression of love and respect for Prophet Muhammad. (2) As a means of da'wah and reminder of

Islamic history. (3) Considered as a cultural tradition that does not conflict with Islamic teachings as long as it does not contain elements of shirk. (4) Based on hadith mentioning that the Prophet fasted on the day of his birth (Hasan, 2015).

Based on analysis from various literature sources, the Islamic AI Muslim Pro Application shows a good level of accuracy in providing answers about Islamic teachings, especially for practical information such as prayer times, Qibla direction, and worship procedures. However, this accuracy can vary depending on the complexity of the questions asked and the availability of input data.

To improve the accuracy of the Muslim Pro Application in providing answers about Islamic teachings, further attention is needed to develop more sophisticated algorithms, integrate more accurate data, and deepen understanding of cultural and historical contexts in religious contexts. In addition, it is also important to recognize that the Muslim Pro Application should be guided and supported by consultation with traditional sources such as scholars to ensure the accuracy and relevance of answers given to users.

Comparison of the Muslim Pro Application with Traditional Sources in Islamic Context: A Review from Literature Sources

In the context of using Muslim Pro Application technology to provide answers about Islamic teachings, it is important to compare the capabilities of the Muslim Pro Application with traditional sources such as Islamic scholars and texts. This comparison not only covers the speed and ease of providing information, but also the accuracy and depth of understanding possessed by both types of sources. The following is an analysis based on data from various relevant literature sources.

Speed and Accessibility of Information

Muslim Pro Applications like Muslim Pro are often relied upon for their ability to provide quick and direct answers. Users can easily ask questions about prayer times, Qibla direction, or worship procedures, and get instant answers without having to manually search for information or consult with scholars directly (Pro, 2024).

Literature studies show that the use of the Muslim Pro Application can save time for busy individuals or those living in areas where access to scholars or religious literature is not easy. This makes the Muslim Pro Application a practical and efficient solution to meet daily religious information needs (Khan et al., 2021).

Accuracy and Depth of Understanding

However, the accuracy and depth of understanding of the Muslim Pro Application is still debated in academic literature. Although the Muslim Pro Application can provide accurate answers

to standard and general questions, such as worship procedures or clear religious laws, this accuracy is often not comparable to the deep understanding possessed by scholars.

Islamic scholars and intellectuals have deep knowledge of sacred texts such as the Quran and Hadith, as well as a broad contextual understanding of the practical application of religious teachings in daily life. They are able to perform complex interpretations of Quranic verses or hadiths that may require understanding of history, culture, and social context at that time (Jannah et al., 2023).

Limitations of the Muslim Pro Application in the Context of Interpretation and Controversy

Research shows that the Muslim Pro Application tends to have limitations in dealing with controversial questions or issues that require in-depth interpretation. For example, in the case of interpreting complex sharia laws or fatwas on contemporary issues, the Muslim Pro Application may not be able to provide adequate answers due to limitations of algorithms or available knowledge bases (Sukma et al., 2019).

The Muslim Pro Application also tends to provide more literal answers related to existing rules, without being able to consider nuances or historical contexts that may be important in religious interpretation. This shows that although the Muslim Pro Application can provide practical answers, consultation with scholars is still needed for complex questions or those requiring in-depth interpretation (Sukma et al., 2019).

CONCLUSION

Based on the research findings, the conclusion highlights several key points regarding the performance and limitations of the Muslim Pro Application in providing answers about Islamic:

1. **Speed and Accessibility:** The Muslim Pro Application is praised for its ability to quickly provide direct answers to common religious queries, such as prayer times, Qibla direction, and basic worship procedures. This makes it a practical tool for users who need fast and accessible information.
2. **Accuracy and Depth:** While the application can provide accurate answers to general and straightforward questions, its accuracy and depth of understanding are often less reliable compared to traditional sources like Islamic scholars and texts. Scholars have a profound understanding of sacred texts and can interpret them with the necessary historical and cultural context, which the app struggles to match.

3. User Preferences: Users tend to use the Muslim Pro Application for simple and quick queries. However, for more complex issues requiring authoritative religious interpretation, they prefer consulting scholars or referring to traditional texts.
4. Overall Value: The Muslim Pro Application is a valuable tool for meeting daily religious information needs efficiently. Nevertheless, it is essential to acknowledge its limitations and ensure that users seek scholarly advice for complex and in-depth religious questions to maintain adherence to correct religious values and principles

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