Exploring the Role of Artificial Intelligence in Interreligious Discourse

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ABSTRACT

This article delves into the rich tapestry of existing literature surrounding the intersection of Artificial Intelligence (AI) and Interreligious Dialogue (ID). Through a careful analysis of available scholarly works, the paper endeavors to shed light on the profound influence that AI exerts on discussions among individuals representing diverse religious backgrounds. By examining the dynamic interplay between AI and ID, the study seeks to unravel the intricate ways in which technology shapes and continues to shape conversations within this multifaceted context.

The primary objective is to deepen our understanding of the opportunities and challenges that unfold at the crossroads of AI and ID. This exploration is poised to contribute valuable insights that extend beyond theoretical frameworks, providing practical implications for scholars, practitioners, and policymakers alike. In essence, the article aims to serve as a compass, navigating the complex terrain where AI and interreligious discourse converge.

As the study unfolds, it specifically aims to identify distinct domains where AI can be harnessed to play a constructive role in fostering and facilitating interreligious dialogue. By elucidating the potential contributions of AI in this realm,

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the article strives to offer a forward-looking perspective that transcends the current situation. Ultimately, this endeavor not only maps the existing landscape of AI in interreligious dialogue but also charts a course for future research, exploration, and application in this evolving and significant field.

Keywords: artificial intelligence, interreligious dialogue, ethical considerations, religious diversity, technology

1. Introduction

Interreligious dialogue, highlighted alongside various educational and societal efforts, is identified as a powerful means to attain social advancements such as harmonious coexistence, mutual understanding, acquaintance with others, and the reduction of biases (Torradeflot 2002). Küng ([1990] 1992) argues that in a multireligious world, interreligious dialogue is the sole approach to realizing these goals. Over the past thirty years, numerous social entities, religious organizations, institutions, representatives, and governments have initiated diverse interreligious dialogue efforts. Nonetheless, the outcomes have varied significantly (Swidler 2013).

In the recent years Pope Francis articulated two important concerns that needs to be given serious attention. First, Pope Francis says, “Interreligious dialogue is a sign of the times,” adding that he considers it “a providential sign, in the sense that God Himself, in His wise plan, has inspired, in religious leaders and in many others, the desire to encounter and come to know one another in a way respectful of religious differences” (Wells 2014). Second, in a recent report by Washington CNN, Pope Francis made a significant announcement that the 2024 World Day of Peace would focus on the intersection of artificial intelligence (AI) and peace, underscoring the crucial importance of responsible and ethical AI development for global harmony and the overall well-being of humanity (Fung 2023).

As reported by Fung, Pope Francis expressed concerns about the disruptive potential and ambiguous consequences of AI, particularly
emphasizing the risks associated with what is now termed as “algorithmic bias,” or the bias introduced into the mechanism of AI algorithms, whether advertently or inadvertently. Thus, he called for responsible AI development and usage, highlighting the need for vigilance to prevent the emergence of violence and discrimination in the production and utilization of AI, with a specific focus on safeguarding vulnerable and marginalized individuals. Additionally, the Pope advocated for the integration of ethical considerations into education and legal frameworks, aligning himself with the notion that AI development should prioritize human rights and shared values. His negative personal experience with AI-generated “deep fakes” further reinforced his call for responsible AI usage (Fung 2023).

Le Duc, in his work titled “Prophetic Dialogue as Approach to the Church’s Engagement with Stakeholders of the Technological Future” (2023), presents a compelling argument that aligns with and anticipates the concerns raised by Pope Francis. Le Duc contends that the Catholic Church should proactively engage with the ongoing cognitive revolution driven by scientific and digital advancements. Rather than questioning the relevance of religion in this technological context, Le Duc proposes a framework of “prophetic dialogue” as an effective means for the Church to interact with other stakeholders in the realm of technological development.

This prophetic dialogue comprises two intertwined aspects: energizing dialogue and criticizing dialogue. Le Duc asserts that by employing these components, the Church can actively shape the trajectory of technology while advocating for ethical considerations, the common good, and the preservation of human dignity. His central thesis revolves around the indispensable role of the Church in shaping a future that aligns with its moral principles and contributes to the well-being of individuals and communities. In essence, Le Duc’s argument underscores the relevance and necessity of religious institutions, such as the Catholic Church, in actively influencing the course of human development in the digital age (Le Duc 2023).

As early as 2020, Le Duc already explored the role of religion in light of the profound scientific and technological transformations
driven by digital technology. He acknowledged the imminent arrival of a new cognitive revolution, led by digital technology and science, which has the potential to substantially reshape the human experience. This situation raises pertinent questions about the continued relevance of traditional religious perspectives within an evolving technocentric landscape (Le Duc 2020). Le Duc’s prior work demonstrates that he was already attuned to the impending challenges and opportunities presented by the digital age, making his arguments in 2023 particularly prescient and relevant in the context of Pope Francis’s recent statements on AI and ethics (Fung 2023).

The argument presented in this paper highlights the transformative potential of AI in the realm of interreligious dialogue, building upon the concerns raised by Pope Francis and the proactive stance advocated by Le Duc. The advent of the digital age has ushered in a technological era marked by unprecedented innovation, particularly in the fields of computing power, data analytics, and machine learning algorithms. These advancements have empowered AI systems to process vast amounts of data, make nuanced interpretations, and engage in sophisticated natural language processing. Importantly, AI’s ability to bridge linguistic and cultural divides has positioned it as a powerful enabler of cross-cultural communication, offering the potential to foster understanding and cooperation among adherents of different faiths.

Interreligious dialogue has been proven to effectively bridge cultural and religious divides while preventing conflicts (Campdepadrós-Cullell 2021). In our globally connected world where diverse religious communities coexist, numerous approaches to interreligious dialogue have emerged in recent years (Juhant 2014). However, there remains a pressing need to explore alternative methods, and one intriguing avenue is the role of artificial intelligence (AI) in fostering inclusive and accessible conversations by transcending linguistic and cultural barriers. Considering this intersection of technology and our interconnected world, it’s worth delving into AI’s potential in promoting interreligious dialogue, as highlighted by Dessì (2016).

AI represents a transformative force capable of augmenting or even replacing human tasks across various sectors, including
industry, intellectual pursuits, and society as a whole, owing to its rapid development in algorithmic machine learning and autonomous decision-making (Duan et al. 2021). Scholars have recognized AI’s potential to enhance our understanding of different religions, promote harmony, and resolve conflicts, as Anderson (2021) points out. This exploration of AI’s role in catalyzing interreligious dialogue must also consider its ethical implications, potential biases, and broader societal impacts. In essence, the convergence of advancing technology and our interconnected global landscape positions AI as a promising tool for fostering mutual understanding and harmonious coexistence among religious communities.

This study aims to explore how AI can contribute to conversations between different religions and learn about the changing ways AI can be helpful in improving Interreligious Dialogue (ID). Commencing with a simple review of academic literature, including articles, research papers, and seminal works concerning AI’s influence on ID, this review endeavors to illuminate overarching themes and prevailing trends while identifying noteworthy contributions within this emerging field. Subsequently, the research delves into ways in which AI-powered tools, applications, and platforms actively facilitate and enrich interreligious discourse. Moreover, the study examines the ethical considerations inherently associated with the integration of AI into the realm of ID.

2. Understanding the Foundations of Artificial Intelligence

The narrative presented by Rockwell Anyoha (Harvard University 2017) shows that in the early 20th century, science fiction laid the foundation for the idea of artificially intelligent robots, with iconic examples such as the Tin Man and humanoid robots. Rockwell Anyoha argues that in the 1950s, visionaries like Alan Turing delved into the mathematical aspects of AI. However, this promising concept faced hurdles in its infancy during the 1950s due to limitations in computing capabilities and the high cost of technology. It required advocacy and proofs of concept to secure funding for AI research (Harvard University 2017).
The Dartmouth Conference of 1956 (McCarthy et al. 2006) stands out as a pivotal moment, even though it fell short of expectations, as it brought leading researchers together and set the stage for two decades of AI exploration. The period from 1957 to 1974 witnessed a flourishing AI landscape as computers improved, machine learning advanced, and early demonstrations like the General Problem Solver and ELIZA (Gaffney, et. al. 2014) displayed potential. Yet, setbacks in the 1970s resulted from insufficient computational power and funding (Harvard University 2017). AI experienced a resurgence in the 1980s with the advent of deep learning techniques and expert systems, backed by substantial investment from the Japanese government (Grudin 2009). The 1990s and 2000s witnessed landmark achievements, including Deep Blue’s triumph over a world chess champion and the implementation of speech recognition software (Newborn and Newborn 2003). Advances in computational power during the 2000s, driven by Moore’s Law, enabled AI milestones such as Deep Blue’s success and Google’s AlphaGo (Russell 2019; Anthes 2017).

Today, AI thrives in the era of big data, finding applications across various industries thanks to the abundance of data and the brute force learning capabilities of machine learning. Looking ahead, the immediate future of AI points toward language applications, while the long-term aspiration is to attain general intelligence, although ethical and societal concerns present substantial obstacles. In summary, the history of AI reveals a journey marked by periods of progress, challenges, and a relentless pursuit of overcoming computational limitations while navigating ethical complexities (Harvard University 2017).

There is no universally accepted definition of artificial intelligence. AI can be broadly categorized into two subfields: narrow AI and general AI, both relying on algorithms (Ashraf 2020). Narrow AI aims to replicate human behavior by analyzing input data to produce desired outcomes, such as social media feeds, online shopping recommendations, or music playlists. Well-known examples include Google’s AlphaGo, DeepBlue, and Google’s anti-suicide system. Narrow AI encompasses machine learning, deep learning, and reinforcement learning. Machine learning involves training algorithms with datasets to recognize and address problems. Deep learning, modeled on neural
paths, allows algorithms to self-modify and improve based on data inputs (Ashraf 2020).

In relation to interreligious dialogue, the discussion on AI’s various forms underscores the importance of understanding the technological foundations and biases that underpin AI systems. Just as AI algorithms can reflect human biases and social factors, this “algorithmic bias” may influence how AI is utilized in interreligious dialogue contexts. Ethical considerations, awareness of potential biases, and the responsible development and use of AI (UNESCO 2021) should be observed and should be integrated into interreligious dialogue efforts to ensure fairness, inclusivity, and meaningful discussions among diverse religious communities.

3. Artificial Intelligence in Interreligious Dialogue: An Overview

ID is increasingly being enriched by AI today. AI’s role within ID involves elevating mutual comprehension and communication among individuals representing diverse religious traditions (Ashraf 2022). AI’s capabilities in data processing, pattern recognition, and insights generation offer a promising solution to address biases, misunderstandings, and communication barriers (Cheong 2020; Galván 2020; Geraci 2007; Green 2018; Kimura 2017), potentially enhancing the effectiveness and depth of ID.

However, it is imperative to acknowledge concerns regarding the accuracy and neutrality of AI algorithms, necessitating that AI should be perceived as a supplementary tool, not a replacement for human interaction in these dialogues (Vinichenko 2020; Benanti 2023). Nevertheless, AI holds substantial promise in facilitating conversations across belief systems, contributing to a more inclusive and empathetic world (Andriansyah 2023).

The extensive literature on ID spans various perspectives and initiatives (Daily Trust 2013; Vatican II 1965; Dörr & Schmalenbach 2018; European Council of Religious Leaders n.d.). Practical applications, exemplified by dialogic learning and the Pedagogy
of the Oppressed, underscore how dialogue can enact personal and social transformations (Flecha 1997; Freire 1968). Scholarly works by researchers such as Galal delve into the impact of interreligious dialogue on interfaith activists, offering insights into the potential of AI-driven initiatives (Galal 2020).

In the context of IRD, Gusha (2022) examines the role of organizations like KAICIID in global interreligious initiatives, while Gustafson (2020) explores interreligious studies. Additionally, theoretical frameworks such as Habermas’ (1984) notion of communicative action provides a useful perspective for understanding and addressing the challenges associated with the implementation of AI in IRD. By emphasizing mutual comprehension and collaborative decision-making, communicative action plays a crucial role in ensuring that the integration of AI is not only technically proficient but also socially fair and ethically responsible. Furthermore, AI’s influence extends to addressing conflicts and promoting cooperation among individuals of different faiths. Studies like those by Bell et al. (2022) emphasize AI’s relevance in conflict analysis and resolution, while Boehle (2010) underscores the significance of religious actors within the UN system in global affairs.

AI’s evolving role in ID presents significant potential for improving cross-cultural understanding and effective communication among individuals from diverse religious backgrounds. While concerns about AI’s algorithmic accuracy and neutrality are valid (Vinichenko 2020; Benanti 2023), AI should be seen as a complementary tool to human interaction in these dialogues. Despite these concerns, AI’s capacity to promote inclusivity and foster dialogue across belief systems represents a promising step toward a more empathetic and harmonious world (Andriansyah 2023).

The extensive literature on interreligious and interfaith dialogue, with its practical applications, theoretical frameworks, and historical contexts, provides a robust foundation for integrating AI-driven initiatives into ongoing discourse, advancing peace and understanding among diverse religious communities. Additionally, prior studies examining various facets of ID and the potential applications of AI offer valuable insights into the future of ID (Bell et al. 2022; Boehle 2010).
4. AI’s potential contributions in ID

In her study comprising ten articles featuring authors from various countries, including Ghana, Hungary, Sudan, and the United Kingdom, Andriansyah (2023) explains that recent months have witnessed a significant upsurge in AI development, exemplified by the rapid rise of ChatGPT, an OpenAI chatbot. ChatGPT achieved a remarkable milestone, amassing 100 million monthly active users just two months. Simultaneously, AI and religion research are gaining momentum, exploring topics such as ethical considerations, integration into religious practices, religious text analysis, interreligious dialogue support, and the theological implications of AI on creation.

AI’s potential impact on businesses is projected to be substantial, affecting around 50 percent of enterprises within the next five years. Notably, ChatGPT has already demonstrated its versatility in healthcare, aiding in medical exam preparation and serving as an in-office assistant, with expanding potential in this field (Andriansyah 2023). The increasing number of scholarly publications in this area signifies growing interest in examining the intricate relationship between artificial intelligence and religion. The following are only some of the potential contributions of AI to ID.

4.1. Language Translation and Interpretation

Religions employ both linguistic and non-linguistic methods of conveying their beliefs, utilizing natural languages, music, sculpture, poetry, rituals, and practices (Vestrucci 2022). Furthermore, religions establish the semantic framework and guidelines for creating, verifying, and interpreting these expressions, effectively rendering religions akin to languages. Typically, each linguistic interpretation remains confined within the specific parameters of its respective religion, leading to the potential for misinterpretations and misunderstandings when engaged in ID.

AI plays a crucial role in language translation and interpretation, making it a valuable tool for facilitating effective communication between individuals from diverse religious backgrounds. Just as AI,
as demonstrated by Pokrivcakova (2019), has revolutionized language education by enhancing efficiency through machine learning and natural language processing, it can similarly be harnessed to bridge linguistic gaps in interreligious discussions.

By recognizing the significance of AI-powered translation and interpretation tools in breaking down language barriers and enabling effective communication between people of different faiths, we can appreciate how AI can serve as a powerful asset in fostering interreligious understanding and dialogue. Moreover, as emphasized by Ashraf (2022), AI’s role in addressing challenges related to freedom of religion or belief signifies its importance in safeguarding fundamental rights within the context of ID.

4.2. Text Analysis and Sentiment Analysis

Religious instruction includes the capacity to share religious content or preach in suitable places, extending beyond just places of worship, according to the UN Human Rights Committee (Art. 18). Those receiving these teachings may interpret the text differently, leading to a range of sentiments. AI algorithms serve as valuable tools in text analysis and emotion analysis, with direct implications for enhancing ID. They can efficiently analyze extensive religious texts, identifying common themes, beliefs, and shared values among different religions, thus providing a foundation for more informed and constructive discussions. Moreover, sentiment analysis, as highlighted by Morency (2011), extends to multimedia content on the internet, enabling the assessment of emotional tones within discussions related to religion. This approach helps in pinpointing areas of potential agreement or disagreement, promoting more fruitful dialogues.

Furthermore, AI’s role in sentiment analysis and text analysis, as emphasized by Xu et al. (2019), contributes to a deeper understanding of emotional nuances within comment texts, thereby facilitating the monitoring and comprehension of public sentiment surrounding religious discussions online. This insight allows for a better understanding of how religious topics are perceived and helps identify potential sources of tension, ultimately fostering more harmonious and effective interreligious
dialogues. In summary, AI-driven text and sentiment analysis tools hold the potential to enhance the quality of interreligious dialogue by providing data-driven insights and promoting constructive exchanges among individuals of different faiths. The translation and interpretation of sentiments expressed in various languages promote understanding and tolerance among individuals of different religious beliefs.

4.3. Recommendation Systems

In 2010, young professionals from the Jewish, Muslim, and Christian communities convened at the Interreligious Dialogue Conference in Seville to discuss collaborative projects and partnerships among faith-based organizations. The conference, designed to foster best practices in the complex realm of ID, served as a platform for individuals aged 26 to 40 from Jewish, Christian, and Muslim backgrounds. They utilized the conference to enhance and construct frameworks for monitoring and preventing anti-Semitism, racism, Islamophobia, xenophobia, and various forms of intolerance (Interreligious Dialogue 2010). Today, AI can contribute by providing recommendations for effective strategies and interventions in the ongoing efforts to promote interfaith relations and counteract negative religious connotations.

AI-powered recommendation systems play a vital role in fostering engagement and promoting ID. These systems utilize AI to suggest religious texts, articles, or videos to individuals based on their interests and beliefs, encouraging them to explore diverse perspectives and gain a deeper understanding of different religions. Recommender systems have evolved significantly since their inception, incorporating various AI techniques like machine learning and data mining, enhancing user experiences across platforms such as Amazon.com and Netflix. Verma and Sharma (2020) emphasize the broader relevance of recommendation systems in AI development, highlighting their application in e-commerce, social networking, and digital marketing, where personalized recommendations tailored to individual preferences contribute to user satisfaction and business success.

Additionally, Zhang et al. (2021) argue that AI-driven recommender systems are continually advancing through techniques
like fuzzy logic, transfer learning, and neural networks, making them more effective and relevant for users. In the context of ID, these systems facilitate the discovery of religious content that resonates with users’ interests, enabling them to engage in meaningful conversations and bridge gaps between different faiths.

4.4. Chatbots and Virtual Assistants

The widespread integration of generative AI and conversational bots has permeated various domains, including religious communities. Bhuiyan (2023) reports on an instance where Rabbi Joshua Franklin employed ChatGPT to generate a sermon by requesting a 1,000-word discourse connecting the Torah portion Vayigash to themes of intimacy and vulnerability, incorporating Brené Brown’s research on vulnerability. This illustrates the extensive impact of AI technologies, even in traditionally sacred spaces, as religious leaders explore novel approaches to their practices.

AI-powered chatbots and virtual assistants, as explained by Agarwal and Agarwal (2022), are versatile technologies that engage users in text or voice-based conversations, offering assistance and performing various tasks. These technologies have the potential to enhance interreligious dialogue by facilitating conversations about religion, providing information, and promoting understanding among individuals of different faiths.

Additionally, Gupta et al. (2020) emphasize the significant impact of chatbots on modern society, showcasing their evolution from simple task completion to multifunctional tools. They propose a classification of chatbots based on market trends and usability, highlighting their relevance in diverse domains, including ID. Overall, chatbots and virtual assistants serve as valuable educational tools and communication aids, fostering interreligious understanding and tolerance in an increasingly interconnected world.

Metzler et al. (2004) in their research paper introduced a novel agent-based computer simulation tool called “THAIST” (Theological Artificial Intelligence Simulation Tool) has the potential to improve
dialogue between scientific and religious communities, particularly in the context of understanding altruistic behavior. Metzler et al. (2004) suggest that THAIST can overcome obstacles to communication and serve as a valuable resource for fostering interdisciplinary dialogue.

However, Bhuiyan (2023) notes some concerns raised by Beth Singler (2017), Assistant Professor in Digital Religions at the University of Zurich, about the accuracy of ChatGPT and chatbots using large language models. Singler (2017) observes that these technologies prioritize responses for conversational flow over precision, posing a potential issue for religions like Judaism and Islam that heavily rely on textual sources. She expresses worry about a potential reshaping of the traditionally accurate and patient theological knowledge that has been shared for centuries, emphasizing that ChatGPT operates as a correlation machine rather than a knowledge-finding one, essentially predicting the likelihood of the next word rather than providing information.

### 4.5. Data Analytics for Interreligious Initiatives

The prominence of ID has grown significantly within the global religious context. This heightened attention is often linked to responses to globalization, which has expanded opportunities for individuals to encounter a variety of religions (Bainbridge 2003; Patel 2018). It is essential to monitor the evolution of interreligious initiatives to establish a comprehensive record of the advancements and sustained efforts in this realm. AI can play a crucial role, particularly in the collection and analysis of data.

Data analytics involves the examination of extensive datasets from various domains, encompassing industrial processes, business operations, textual and structured data (Runkler 2020). In industrial contexts, data analytics is pivotal for process optimization and improving a company’s competitiveness through data sourced from sensors, control systems, monitoring, and planning. In the business realm, data analytics is applied to understand and drive various aspects such as customer behavior, sales, marketing, pricing, financials, risk assessment, and fraud detection (Runkler 2020). For instance, it aids in identifying products frequently bought together, thus enhancing cross-selling strategies. Data
analytics is also increasingly used for analyzing textual and structured data, indicating its evolving role in contemporary data analysis (Runkler 2020).

World religions can benefit from adopting successful practices observed in the secular sphere. While acknowledging that many religious traditions struggle to keep pace with rapid AI innovations, it is imperative to adopt a proactive stance, particularly in the context of ID. The significance of high-dimensional data analysis is evident in its capacity to provide a more profound comprehension of intricate interreligious dynamics.

In a world where diverse religious beliefs and practices intersect (Swanson 2019), analyzing multifaceted data can help identify patterns and commonalities, fostering more informed and constructive dialogues among religious communities. Social scientists use qualitative modes of inquiry to explore the detailed descriptions of the world that people see and experience (Pistrang and Barker 2012). By applying innovative qualitative modes of inquiry, researchers can uncover insights that may not be apparent through traditional approaches. This can enhance the effectiveness of ID efforts, promote greater tolerance, and facilitate meaningful discussions on shared values and challenges in an increasingly interconnected world.

AI can be used to analyze data related to interreligious initiatives, such as participation rates, feedback, and outcomes. This data-driven approach can help organizations refine their strategies and measure the impact of their efforts in promoting ID.

4.6. Social Media Analysis

Social media is now an essential tool for communication and dialogue, including ID, which has been crucial throughout human history. By connecting diverse individuals and facilitating information exchange, social media has the potential to alleviate conflicts arising from religious differences. To maximize its positive impact, users need skills to analyze, understand, and evaluate content and avoid biases (Amirfarhangi 2020).

AI, encompassing technologies like machine learning and natural
language processing, offers substantial opportunities, especially in the realm of social media (Sadiku et al. 2021). As AI continues to evolve, it holds the potential for significant impacts on social media networks, reshaping media markets, and promising a bright future. Jacoba’s (2023) research emphasizes that leveraging data analytics and machine learning offers valuable insights into social issues discussed on Twitter. These insights can complement the Catholic Church’s traditional methods of data collection, enabling a deeper understanding of the needs and concerns of the people it serves. Jacoba (2023) stresses that the Catholic Church should address social issues such as health, politics, and human affairs alongside its religious mission. By prioritizing these concerns and utilizing technology-driven insights, the Church can better fulfill its broader social and political role and meet the needs of its community.

AI tools harbor the potential to actively monitor social media platforms for discussions (Kaput 2022) related to religion, effectively identifying trends, sentiments, and potential areas of conflict. This analytical capability proves invaluable for addressing misunderstandings and fostering constructive online discussions, ultimately contributing to the broader objectives of ID.

Furthermore, AI holds the potential to make significant contributions to ID. Such contribution lies in facilitating ID collaboration. AI technologies can play a role in connecting individuals or organizations interested in engaging in ID and cooperation. By leveraging AI, it becomes feasible to identify common objectives and areas of interest among diverse groups, thus simplifying the process of working together on shared initiatives.

Moreover, AI’s capacity extends to enhancing accessibility within religious contexts. Specifically, AI-powered tools can improve the accessibility of religious texts and resources, catering to individuals with disabilities, including those with visual impairments. Features like text-to-speech and speech-to-text technologies can be harnessed to facilitate greater inclusivity.

Additionally, AI has a role to play in the ethical dimension of interreligious ethics. It can be employed as a tool for delving into ethical
questions and dilemmas associated with religion. This encompasses fostering discussions on topics such as the responsible use of technology within religious contexts and the moral considerations surrounding AI advancements in the realm of faith.

5. Call for Responsible Engagement

5.1. The Catholic Christian Viewpoint

While the author has not come across specific articles detailing the use of AI by the Roman Catholic Church in their ID activities, it appears that their focus lies on promoting responsible and ethical AI use in these discussions. The Pope has expressed a deep appreciation for ongoing dialogues, particularly those addressing the responsible use of technology, which he sees as open to religious values. Emphasizing the significance of dialogue between believers and nonbelievers on fundamental ethical, scientific, and artistic questions, the Pope considers it a pathway to peace and integral human development (Bishop’s Conference of England and Wales 2023). He acknowledges the immense benefits of technology in fields like medicine, engineering, and communications, viewing them as evidence of human creativity and the noble responsibility to participate responsibly in God’s creative action.

From a Catholic perspective, exploration of the Church’s stance on AI reveals frequent addresses by the Pope and the Vatican on the matter in recent years. In November 2020, Pope Francis urged Catholics worldwide to pray for the ethical use of robotics and AI, emphasizing their subservience to humanity (McKeown 2022). Prior to this, in the spring of 2020, the Pontifical Academy for Life, with endorsements from technology giants Microsoft and IBM, advocated for the ethical and responsible application of AI. The endorsed declaration outlined six ethical principles for guiding AI development, encompassing transparency, inclusion, accountability, impartiality, reliability, and security and privacy, highlighting the Church’s commitment to ensuring that AI serves humanity ethically (McKeown 2022).
Pope Francis, as articulated by Pecorario (2023) of the Vatican Dicastery for Promoting Integral Human Development, challenges the concept of technological neutrality and underscores the necessity for ethical and accountable interactions with technology. This includes technologies like AI, which are increasingly recognized as intertwined with systemic power dynamics, prompting concerns about their impacts on relationships with others and the natural world. Pecorario’s perspective also underscores the importance of accountability and multilateralism in governing technology, addressing the digital divide, ensuring justice and equity in technology access, and contemplating the moral dimensions of AI in defense and security.

Pope Francis advocates for a holistic approach to technology that combines ethical, moral, and technological considerations with interreligious dialogue and collaboration (Lubov 2023). This approach seeks to foster a new humanism that integrates philosophical, ethical, and technological aspects for the common good.

5.2. The Buddhist Viewpoint

From a Buddhist viewpoint, as elucidated by Lin (2023), the growing influence of AI technology necessitates thoughtful ethical considerations. It is argued that AI, lacking the capacity for suffering and conscience, presents challenges to conventional ethical frameworks. Rather than merely being passive subjects of ethics, AI should be subjects of ethical discourse, with a primary focus on robotic entities. Despite their lack of definite moral status, Lin (2023) asserts that robots cannot be entirely devoid of moral significance, and humans, with their capacity for moral reflection, bear responsibility for the development and societal role of AI technologies. This perspective explores the potential for fostering spiritual growth by recognizing the interconnectedness between humans and AI.

In short, the Buddhist perspective offered by Lin (2023) suggests that by adopting a middle-way approach, acknowledging the uniqueness of human intelligence, and understanding the complex relationship between humans and AI, we can envision a future where the emergence of robots does not threaten humanity but instead ushers in an era characterized by harmony and coexistence.
5.3. Islamic Viewpoint

Regarding Islam, the literature surveyed for this research did not provide good information about the role of AI in ID. However, scholars acknowledge that there is no doubt that AI development has significantly changed the world, and Muslims are no exception. Formulated in the research labs of the Silicon Valley, AI is deeply rooted in secular ideals of progress (NAwi 2021). Still, as AI goes global, advocates of different ethical traditions are weighing in, often calling for greater regulation of the technology. Muslim AI experts in particular, have reignited a longstanding debate about the relationship between modern liberalism and Islam. Muslim scholars ask, “must algorithms be allowed to play God?” (NAwi 2021). The response to this issue is crucial because there are numerous advantages and benefits of AI.

Understanding the Quran is a grand challenge for society, for western public education, for Muslim-world education, for knowledge representation and reasoning, for knowledge extraction from text, for systems robustness and correctness, and for online collaboration. Atwell et al. (2011) propose the construction of the Quranic Knowledge Map to address the fact that understanding the Quran is a major new grand challenge for computer science and AI. Hassoon et al. (2018) recommends a development of an Islamic ethical framework in regulating the use of AI product, especially for the Muslim community.

5.4. Hindu Viewpoint

In the context of Hinduism, existing literature lacks information regarding the role of AI in ID. Nevertheless, various articles addressing ethical concerns related to AI have been published on Google, with Pancane (2021) being among the contributors. While the Hindu perspective on the role of AI in ID remains unexplored, research in other domains has been conducted. For instance, Merliana (2022) conducted research on enhancing the quality of Hindu education, asserting that technology, aligned with Hindu religious norms, can influence education as a manifestation of digital culture. Employing a descriptive qualitative method with a literature review approach, Merliana (2022) argues that technological involvement in the era of society 5.0 is integral to
improvement. Embracing digital culture facilitates the enhancement of Hindu education quality, considering factors intrinsic to digital culture.

Abhivardhan (2021), representing the Hindu perspective in India, underscores the necessity for AI ethics to be deeply ingrained in the cultural, philosophical, and civilizational values of the country. This viewpoint underscores the crucial role of civilizational states in shaping AI ethics policies and emphasizes the significance of incorporating cultural and philosophical dimensions in the formulation of AI-related policies.

In summary, across various world religions, there is a common thread of ethical concern and a call for responsible and holistic engagement with AI. Leaders and scholars from different faith traditions emphasize the need to approach AI with ethical mindfulness, ensuring that its development and deployment align with moral values and principles. While recognizing the potential benefits of AI, there is shared apprehension about its impact on human relationships, nature, and societal power dynamics. These concerns underscore the importance of accountability, justice, equity, and ethical frameworks in the governance of AI technology. Additionally, ID is seen as a means to promote openness, respect, and shared problem-solving among individuals of diverse faiths, fostering a collaborative approach to addressing the ethical challenges posed by AI. Overall, world religions converge in advocating for ethical, responsible, and interreligious-driven approaches to navigate the complex ethical landscape of AI.

6. Summary, Conclusion, and Recommendations

In the endeavor to investigate the role of AI in ID and taking into account the constraints of the existing articles and literature examined in this paper, it is evident that AI’s potential application in ID has not received substantial attention. Nevertheless, it is noteworthy to state that various religions express significant apprehension regarding the ethical ramifications associated with the utilization of AI. This common concern on AI can be the starting point of ID about AI and perhaps in a manner which is enhanced or augmented by AI.
AI’s potential contributions to ID can be far-reaching and diverse, if maximized creatively and carefully. It can act as a bridge builder, helping to overcome linguistic barriers through language translation and interpretation. AI-driven text and sentiment analysis can empower stakeholders to delve deeper into religious discussions, unearthing nuanced emotional undercurrents and identifying potential areas of tension. Recommendation systems have the potential to encourage individuals to explore and appreciate diverse religious perspectives, promoting engagement and fostering interreligious connections. Chatbots and virtual assistants emerge as versatile tools, facilitating meaningful conversations about religion, providing information, and promoting understanding among individuals of different faiths. In the era of data, AI can empower religious leaders to re-evaluate their ID strategies, offering insights and measurements of their impact. It can further extend its reach to social media analysis, allowing for the monitoring of religious discussions and sentiment trends, enabling more constructive online dialogues.

Beyond these practical applications, AI’s potential in fostering harmony transcends mere functionality. It can foster collaboration among diverse faith groups, connecting them based on shared objectives and interests. It champions accessibility, ensuring that religious texts and resources are available to everyone, including those with disabilities. Additionally, AI engages the various faiths in ethical discussions, delving into the responsible use of technology within religious contexts and exploring the moral implications of AI’s progression within faith.

Based on this, the following recommendations are proposed: First, Leverage AI for Interreligious Initiatives: Religious organizations involved in ID should explore AI’s potential for data analysis to refine strategies and assess the impact of their efforts. AI-powered tools can enhance program effectiveness and help measure the success of ID initiatives.

Second, Enhance AI-Powered Education. Develop AI-driven educational tools and resources that promote interreligious understanding. These tools could include language translation apps, recommendation systems for religious texts, and chatbots that facilitate
interreligious conversations.

Third, *Foster AI-Enabled Collaboration*. Create platforms or networks that use AI to connect individuals or organizations interested in ID. AI algorithms can identify common objectives and areas of interest, simplifying the process of working together on shared initiatives.

Fourth, *Promote Ethical AI Discussions*. Encourage discussions on the ethical implications of AI in religious contexts. Explore topics such as responsible technology use, privacy, and the role of AI in shaping religious discourse.

Fifth, *Support AI Research in Religious Studies*. Allocate resources to research AI’s impact on religious studies and ID. Encourage interdisciplinary research that combines AI expertise with religious studies to drive innovation in this field.

Finally, it is recommended that the different world religions should invest in technological facilities that could enhance collaboration and dialogue among faith-based communities. Christians, Buddhists, Hindus, Muslims, and adherents of all other faiths ought to unite in establishing a framework to guarantee the responsible use of AI. This involves gaining knowledge about AI, contemplating the ethical and moral dilemmas it poses, and actively participating in its creation and regulation. Through interreligious collaboration, believers can utilize this technology in a manner that upholds reverence for God and contributes to the well-being of humanity, fulfilling our collective responsibility to ensure its ethical use.

In conclusion, the age of algorithms presents an unprecedented opportunity to cultivate harmony among different faith communities. AI’s transformative capabilities in ID offer the potential to break down barriers, encourage understanding, and facilitate conversations that transcend religious divides. As we embrace AI’s promise and advance its responsible development, we pave the way for a more harmonious world where diverse beliefs coexist and thrive, guided by the principles of compassion, empathy, and mutual respect. Harmony in the age of algorithms is within reach, and AI is the key that unlocks its door.
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