

CHAPTER III

Artificial Intelligence (AI) Advances in Catholic Family Life: Opportunities and Challenges

Metodius Nasrani (Confortinasrani14@gmail.com)

Fransiskus Heryman Surya Gadur (albert.bky122@gmail.com)

STIKAS Santo Yohanes Salib - West Kalimantan

Abstract

Advances in artificial intelligence (AI) technology have brought fundamental changes to Catholic family interactions and dynamics. Research shows that adopting AI can improve family communication and spirituality but also raises ethical implications and challenges to traditional values. This study explores the impact of AI on family interaction patterns and language, identifying potential enhancements and disruptions to interpersonal relationships. In addition, the application of AI in Catholic religious education offers a more personalized and adaptive learning method but risks reducing the human interaction essential for spiritual growth. The views of Pope John Paul II and Pope Francis emphasize the wise use of technology to enrich family values and protect human dignity. This study aims to bridge the integration of AI by considering its challenges and opportunities for Catholic families in maintaining the legacy of traditional values amidst technological advancements.

Keywords: Advances in AI technology, Catholic Life, Challenges and opportunities, Catholic Religious Values

Introduction

Advances in artificial intelligence (AI) technology have become a milestone in the transformation of human life, creating significant developments in various fields, as described by (Russell & Norvig, 2010) that AI is at the center of global attention in formulating the future direction of technology and human interaction with AI. McCarthy et al., 2006 explained that AI plays a vital role in technological development. The use of AI, from digital assistants to predictive algorithms in everyday life, has opened up new opportunities and posed unique challenges, especially in families with Catholic religious values (Smith, 2020).

Smith (2020) posits that the infusion of Artificial Intelligence (AI) into the daily routines of Catholic families gives rise to pivotal inquiries concerning how these families can seamlessly integrate such technology in alignment with their religious values and doctrines. Ethical dilemmas inherent in AI, encompassing social and spiritual dynamics within familial settings, along with the repercussions of AI utilization on the educational sphere for children within a Catholic milieu (Yi et al., 2024), underscore a discernible disparity in comprehending and implementing this technology within the specific context of Catholic households (Brown, 2021).

Research (Green, 2018) found the impact of AI in business and social contexts but less attention to religious and spiritual aspects, particularly in the context of Catholic families. Thus, this study aims to bridge the gap by examining how Catholic families incorporate AI into their daily lives, investigating the obstacles encountered, and identifying the potential for alignment between AI technologies and Catholic principles (Johnson & Brown, 2021).

Furthermore, the study explores how Catholic religious education can adapt to these technological advancements and the ramifications of religious instruction and practice within families (Smith, 2020). In conjunction with these rapid advancements, the Catholic family as a moral and spiritual entity cannot evade the transformative impact of these technologies, and according to Vos, G. A. et al. (2020), the development of AI technologies not only affects individuals but also permeates the entire familial structure. Schneck and Döring (2016) contend that families bear a moral obligation to ensure that the utilization of technology aligns with Catholic spiritual and moral values.

In this context, the Church emphasizes the importance of using technology wisely so that family values are not compromised. This understanding is fundamental in the view of Pope John Paul II, who invited Catholics to digest technological developments within the framework of morality. In *Familiaris Consortio* (1981), Pope John Paul II emphasized how vital the role of the family is to educate children in moral and religious values (John Paul II, 1981).

Families must ensure that technology within the family environment supports character formation by Catholic teachings. In his encyclical *Amoris Laetitia* (2016), Pope Francis also underlined the role of the family in dealing with technological challenges, primarily through proper sexual education and digital ethics, being aware of inequalities in access to technology, and assisting family

members in dealing with moral issues and maintaining a balance between digital interaction and private life (Francis, 2016).

Catholic families need to address the complex challenges that come with these technological advancements. Such challenges touch on how technology affects family values, interpersonal relationships, and moral integrity. In responding to these challenges, the judicious utilization of AI technology can open doors to higher education and awareness, allowing families to stay connected and deepen faith values. In addition, Catholic families are expected to engage judiciously to guide their family members in the use of and response to AI technological advancements to align with moral teachings and Catholic values. In this regard, the Family becomes a place where each family member is honored and protected in dignity. Therefore, using AI in the family must respect individual human rights and freedoms and not be used to manipulate or exploit family members (Rome Call for AI Ethics, 2020).

Therefore, this research explores how Catholic families employ artificial intelligence (AI) technology in their everyday lives and how it impacts the social and spiritual interactions within the family. What are the primary obstacles encountered by Catholic families in attempting to reconcile AI with Catholic doctrines and religious values, and how might these obstacles be addressed? How can Catholic religious education adapt to the advancements in AI technology, and how does this influence the teaching of religion and spiritual practices within Catholic families? What are the perspectives and teachings of the Catholic Church, as represented by Pope John Paul II and Pope Francis, regarding the utilization of AI technology in Catholic family life, and how can these perspectives guide Catholic families in safeguarding their spiritual and moral values in an era of rapidly evolving technology? Literature Review

Impact of AI on Social and Spiritual Interaction of Catholic Families

Advances in AI have brought about a significant impact on the social and spiritual interactions of Catholic families. Research from Andriansyah (2023) comprehensively explains how AI affects the dynamics of social and spiritual relationships in the context of Catholic families. In detail, he describes how Catholic families adopt and implement specific AI applications and platforms. This analysis includes an in-depth understanding of the role of technology in facilitating social and spiritual activities, making it more than just a conventional communication tool. The research provides a rich understanding of how AI can

shape and enhance the quality of interactions between family members in the spiritual and social realms.

Meanwhile, Jahan et al. (2020) also specifically analyzed the role of AI in aiding communication and engagement within families. This study investigated designing and implementing an AI-based mobile application to help families stay connected. In this case, AI facilitated families' communication and participation, especially in geographically separated families. Adopting this technology is about ease of communication and strengthening family engagement and relationships in social and spiritual dimensions. By engaging geographically separated families, AI applications can act as a bridge to maintain and deepen the spiritual connection between family members.

Furthermore, Tran and Nguyen (2021) focused on the impact of AI on Catholic religious practices in terms of sacramental practices and pastoral care. AI can enrich the appreciation of sacraments in the Church, such as Eucharist and Reconciliation. For example, AI applications can provide deeper reading material, reflections, or historical context in preparation for Mass. Also, in the reception of the sacrament of Reconciliation, AI apps or devices can help in the process of personal reflection and guidance for conversion.

These AI apps can also greatly assist families in shaping spiritual discussions, deepening their understanding of Catholic teachings, and enhancing family worship (Hohenstein et al., 2023). Likewise, in pastoral care, the application of AI technology in religious guidance and counseling can provide additional support for individuals seeking spiritual guidance (Sinibaldi et al., 2020). AI systems can help analyze an individual's questions or needs and provide responses that align with Catholic religious teachings and values.

The Challenge of Integrating AI and Catholic Teaching in the Family

The use of AI Technology has presented severe challenges to the integrity of the Catholic family. While these technologies provide convenience in various aspects of life, their impact on the moral and ethical values of the family is a significant concern. In AI integration, ethical questions about privacy, security, and social impact arise that must be carefully considered. In this regard, the Catholic Church's teaching is, in principle, that AI technologies are used to support, not replace, authentic and deep human interaction (Pegoraro & Curzel, 2023).

Catholic families are faced with the critical task of ensuring that AI technologies do not compromise family intimacy, threaten privacy, or undermine

Catholic moral principles. Pope John Paul II, in *Familiaris Consortio*, emphasized the importance of maintaining the integrity of the family as being in harmony with Catholic teaching (John Paul II, 1981). The challenge raises the question of how the Catholic family can maintain its values, especially in a digital age increasingly influenced by AI Technology.

To address this challenge, the first step is to raise awareness and understanding of the ethical implications of AI use. Families must design clear internal policies regarding time limits on technology use, division of technology-related household tasks, and norms that guide the ethical use of devices within the home, such as implementing filters or adequate parental controls (Green, 2022). This can help create a balanced environment between technology, social interaction, and spiritual life.

According to Sinibaldi, Parents need to provide a strong understanding of Catholic values and how technology can be used to support those values, not as a substitute (Sinibaldi et al., 2020a). Similarly, (Schneider et al., 2019) emphasized the importance of a comprehensive approach to clearly understanding Catholic values and, in this case, prioritizing human interaction within the family, such as talking, discussing, and sharing experiences in person, without reliance on technology. This can be done by setting a particular time to interact without technological distractions so that the value of communication and affection between family members is maintained (AI Ethics: An Abrahamic Commitment to the Rome Call, 2023).

Bishop Tighe also believes that one of the proposed solutions to address this challenge is an understanding approach and awareness of the possible impacts of AI technology. In this regard, solid moral education in Catholic families is essential to ensure that the use of AI technology does not contradict the teachings of the Church. Integrating AI and Catholic teachings in the family also requires a holistic and thoughtful approach (Green, 2022).

Opportunities for Catholic Religious Education Development through AI

Considering the positive aspects, research indicates that artificial intelligence (AI) technology can be a valuable tool in nurturing Catholic families' spiritual and academic development. Graves' study in 2022, which focuses on education and religious traditions, investigated the impact of AI technology on the lives of Catholic families. The findings of Graves' research illustrate how the

utilization of artificial intelligence (AI) can augment the effectiveness and efficiency of the educational system through various techniques, encompassing virtual reality applications, intelligent tutoring systems, adaptive learning, predictive analysis, and natural language processing interfaces. This analysis seeks to explore how AI can affect the lives of Catholic families in terms of education, especially in the context of adaptive learning, predictive analysis, intelligent tutor systems, and virtual reality applications (Graves, 2022).

In this case, Labrecque understood that AI technology could be essential in supporting Catholic families' learning and spiritual growth. Catholic families can facilitate more convenient and comprehensive access to spiritual information and resources through AI-powered applications and platforms. This advancement proves beneficial in fostering a more profound comprehension of Catholic religious teachings and elevating spiritual practices within the familial context (Labrecque, 2022).

Labrecque's study further underscores that the integration of AI technology in Catholic religious education has the potential to introduce more interactive and captivating learning methodologies for family members. The adaptability of AI allows for personalized Catholic spiritual learning experiences, contributing to heightened engagement and interest among family members in acquiring religious knowledge. In his research, Stahl also accentuates that AI technology can streamline access to spiritual resources, thereby supporting the spiritual growth of individuals (Stahl, 2021).

Discussion

The Effect of AI Technology on Catholic Family Dynamics

The empirical inquiry conducted by Xingwen Wu et al. (2021) explores the influence of AI devices on family dynamics and child development within a specified age cohort. The study explores how AI integration shapes familial interactions, educational encounters, and the cultivation of cognitive and social skills in children. Its primary objective is to discern the positive and negative implications of integrating AI into family education. Through examining family experiences involving Tmall Genie and Duer, the researchers aim to offer valuable insights applicable to educators, parents, and technology developers.

The outcomes of this literature review underscore the potential advantages of AI integration in family education, particularly concerning the utilization of AI

tools like Tmall Genie and Duer. On a positive note, AI can enrich children's learning experiences by delivering personalized and interactive educational content. Furthermore, it can aid parents in managing household responsibilities more efficiently, facilitating increased quality time with their children. However, concerns have been raised regarding the potential adverse effects of AI on family relationships, as prolonged screen time and reliance on AI devices may reduce face-to-face interaction and communication within familial contexts (Wu et al., 2021).

Storch and Juarez-Paz (2018) analyzed the influence of mobile devices on familial communication. Their findings indicate a substantial positive effect of mobile devices on family communication, attributed to heightened accessibility and flexibility in maintaining connectivity. The study underscores the significance of establishing boundaries and regulating screen time to uphold a healthy equilibrium between virtual and face-to-face interactions within familial contexts.

While facilitating increased connectedness and frequent communication within families, the extensive utilization of mobile devices has prompted apprehensions regarding potential adverse repercussions, such as diminished quality time spent together and potential distractions during pivotal family moments. Families are urged to manage their mobile device usage conscientiously, delineating boundaries to safeguard face-to-face interactions and meaningful relationships (Storch & Ortiz Juarez-Paz, 2018).

Similarly, research by Hohenstein et al. (2023) underscores the influence of Artificial Intelligence (AI) on communication, positing its substantial impact on language and social relationships. The study reveals that integrating AI into family communication can alter language patterns and social interactions, influencing family dynamics (Hohenstein et al., 2023). In light of these advancements, families must remain cognizant of potential negative impacts and actively oversee their digital interactions to continue cultivating robust and meaningful relationships within the family unit.

Ethics and Morality in the Utilisation of AI Technology

Using AI technologies in Catholic family life has ethical and moral implications that must be considered. Quoting Bishop Paul Tighe (Green, 2022) states that the adoption of AI in the learning and spiritual growth of Catholic families can create risks to data security and privacy issues. Bishop Paul Tighe, in this regard, highlights the importance of considering the ethical implications of

using AI in Catholic family life. He emphasized that the use of AI technologies in education and spiritual growth has the potential to present several challenges, particularly regarding the security and privacy of Catholic family data (Green, 2022).

The research conducted by (Tran & Nguyen, 2021) also discusses in detail the risks to data security and privacy issues that may arise from the adoption of AI in the learning and spiritual growth of Catholic families. This touches on sensitive issues related to personal data protection and information security that need to be considered in utilizing AI technology in religious contexts. In addition to privacy concerns, Tran and Nguyen emphasize that using AI technologies in Catholic family life should be based on careful ethical considerations.

They raised critical questions on how AI technologies can be integrated in a balanced way with the ethical values that underpin the teachings of the Catholic Church. They also highlighted the importance of balancing technological progress and authentic human values in religious practice. Likewise, a study by (Sinibaldi et al., 2020) revealed the need for caution in integrating AI technology into sacraments and pastoral care for Catholic families. They discuss how the utilization of AI technologies can affect the experience of sacraments and human engagement in pastoral care and potentially trigger ethical consequences that need to be carefully considered.

Moreover, an investigation carried out by Jin (2019) regarding the impact of the artificial intelligence era on early childhood family education in China revealed the significant role parents play in influencing AI's ethical and moral utilization within the familial context. This research underscores the pivotal nature of parental guidance in assisting children in comprehending the ethical and moral dimensions associated with AI. It accentuates the necessity for parents to be cognizant of the potential repercussions of AI on their children's cognitive and social development. In this context, parents must establish limits and supervise the utilization of AI to ensure its alignment with familial values and principles.

AI in Religious Education in Modern Catholic Families: Challenges and Opportunities

In the era of technological advancement in artificial intelligence (AI), the role of Catholic religious education within Catholic families has become a fundamental concern. The integration of AI brings about fundamental changes in the approach to Catholic religious education. This new paradigm creates a platform

for exploring innovative concepts and learning methods that can be personally adapted to each family member. AI allows religious education to be more dynamic, responsive, and relevant to individual development within the family. An in-depth analysis of how AI can be a means to enrich Catholic religious teaching while maintaining the integrity of spiritual and moral values that are central to the teachings of the Catholic Church.

The possibility of utilizing AI to provide learning resources that are specific and appropriate to the spiritual development of family members is critical to creating a dynamic and effective religious education environment. However, amidst these advancements, ethical and moral challenges arise. The sustainability of human interaction with AI in religious education demands careful consideration of the ethical implications of using this technology in shaping moral and spiritual values within Catholic families.

One possible impact is the loss of the human dimension and personal interaction in the religious learning process (Amriani et al., 2023). While AI can provide a personalized and adaptive learning experience, it is essential to remember that the spiritual dimension is often better understood through in-depth human interactions, such as discussions, questions, and personal mentorship. This shortcoming can harm spiritual and moral development, which is best achieved through direct engagement with religious teachings and practices.

In addition, information privacy and security risks also need to be considered. Relying on AI to collect personal data and religious preferences could open up potential security and privacy risks affecting Catholic families' integrity and trust in using these technologies. Solutions to address these impacts may involve a holistic and balanced approach to religious education in families. While AI can be a valuable tool, families must ensure that these technologies are used as complements, not substitutes. Initiatives such as maintaining human engagement through family discussions, religious classes at church, or spiritual direction can strengthen spiritual bonds by engaging the critical human aspects in faith formation.

In exploring opportunities for the development of religious education through AI advances in the context of the Catholic family, *Amoris Laetitia* (2016) and *Familiaris Consortio* (1981) are the central guides. *Amoris Laetitia* emphasizes the crucial role of religious education in shaping the character and morals of family members. It provides a solid ethical and moral foundation for exploring ways AI applications can be integrated into Catholic families' religious education.

The document also highlights the importance of educating children in the Catholic faith. In this regard, *Amoris Laetitia* continues to guide that Catholic religious education in the family remains the primary responsibility of parents. In this regard, AI technology can be a valuable tool, but moral and spiritual values should be emphasized in the education process. In addition, understanding digital ethics and instilling Catholic values in the use of technology is an integral part of Catholic religious education in the family. John Paul II, also in *Familiaris Consortio*, emphasized the same point that technology, in this context, the advancement of AI, should not replace the role of parents as the primary educators of their children in religion. The value of direct involvement and continuity of religious education from generation to generation remains paramount. Therefore, while AI technology can provide the necessary learning resources, it should not replace the active role of parents in guiding and shaping their children's character by Catholic values. Analysis Teologis:

Reflections on the Views of Pope John Paul II and Pope Francis on the Dynamic Use of AI Technology in Catholic Families

The Catholic Church has a careful and reflective view of advances in artificial intelligence (AI), viewing them from the perspective of ethics and moral values. In the Catholic Church's view, advances in AI are seen as a tool with great potential to contribute to humanity positively. The Church recognizes AI's ability to improve human life, overcome some challenges, and provide solutions to various problems.

However, the Catholic Church also expresses ethical concerns about the development of AI. In its ethical assessment, the Church emphasizes that any technological advancement, including AI, should be directed towards advancing human welfare and involve fundamental moral principles (*AI Ethics: An Abrahamic Commitment to the Rome Call*, 2023). About AI technological advancements in the context of the Catholic family, we draw on the views of Pope John Paul II and Pope Francis to analyze the integration of these AI technological advancements in the Catholic family. This theological analysis explores the dynamics and theological implications of integrating AI technology into the Catholic family environment.

First of all, we seek to understand the views of John Paul II as reflected in several documents issued during his pontificate. Pope John Paul II, while not explicitly addressing the advancement of AI technology, took center stage in the

values of the Catholic family. In *Familiaris Consortio*, Pope John Paul II emphasized the importance of the family as the domestic Church, the first place for the formation of faith. In the context of AI technology, the role of the family as an agent of spiritual and moral formation must be preserved. The document highlights the responsibility of parents to educate their children in the faith, and the integration of AI technologies should be carefully assessed not to replace this primary role.

Pope John Paul II details that the family should be a place where technology is used wisely, supporting and enriching the spiritual formation of family members. Therefore, technology should be directed towards strengthening, not replacing, the spiritual and religious dimensions of the family. In addition, the document also highlights the importance of communication and personal engagement within the family. In an age of advanced technology, where digital interactions can dominate, families are reminded to maintain their presence and deep interpersonal relationships. This includes using technology to facilitate positive communication and promote religious values.

In his encyclical *Redemptor Hominis*, Pope John Paul II highlighted human dignity as central to Catholic theology. In integrating AI technologies, the main focus is protecting human dignity and developing the person (John Paul II, 1979). Technology should be geared towards enhancing dignity and assisting in forming children's moral character, not at the expense of humane values within the family. Subsequently, in the encyclical *Evangelium Vitae*, Pope John Paul II deepened his views on life ethics issues, which remain relevant in the discussion on integrating AI technologies (John Paul II, 1995). He emphasized the importance of ethics in the development of technology, viewing it as an instrument that can enrich and improve human life without violating the principles of Catholic morality.

Moreover, Pope Francis touched on these issues in various contexts, highlighting Catholic families' challenges and opportunities in the age of advanced technology. Although Pope Francis' views on technological advancement and AI are not focused in one specific document, his messages create the foundation for a wise and ethical pastoral approach to the use of technology in Catholic family life. He emphasized the importance of ethics and social responsibility in the face of technological advancement, viewing it as a tool that can advance justice, solidarity, and human dignity.

In his encyclical *Laudato Si* (2015), Pope Francis exhaustively detailed his views on ecology and the impact of technology on the environment and humans.

While not explicitly addressing AI, the encyclical discusses the concept of ecological integrality that encompasses human life and the influence of technology on the way we live (Francis, 2019). Pope Francis emphasized that technology must be within an ethical framework that considers sustainability and social justice. In *Amoris Laetitia* (2016), Pope Francis addressed the issues of the modern family.

Although not specifically about AI technology, he highlighted the challenges and opportunities that arise from using social media and communication technology in family life. Pope Francis called for maintaining interpersonal relationships within families and encouraged using technologies that support personal engagement and healthy communication. He emphasized that technology should not be detrimental to human dignity and family life but should be directed toward advancing justice and human wholeness.

In conclusion, this analysis of Pope John Paul II and Pope Francis creates a foundation for understanding the Catholic Church's views on using AI technologies in the family. AI advancements reflect a holistic approach that considers their positive and negative impact on human dignity and moral values. Regarding the teachings of Pope John Paul II and Pope Francis, technology integration should be geared towards enriching the spiritual and moral life of the Catholic family, maintaining the continuity of traditional values, and positively contributing to ecology and human dignity.

Conclusion

Advances in AI technology have significantly impacted Catholic family life's social and spiritual aspects. On the one hand, AI technology has facilitated increased family interaction and engagement and enriched religious experiences through various digital applications and platforms. On the other hand, serious challenges arise in maintaining a balance between the digital world and the moral values and Catholic teachings that underpin family unity.

In the face of these dynamics, Catholic families must use AI technologies wisely, considering their impact on human dignity and interpersonal relationships within the family. Raising awareness about ethical issues and setting clear boundaries in the use of technology is critical to bridging this challenge. On the other hand, AI technology also opens up significant opportunities for educational development and spiritual growth for family members through various interactive and personalized digital learning resources.

In this regard, the views of Pope John Paul II and Pope Francis provide an essential theological foundation, emphasizing that technology should be directed to enrich and complement, not replace, the central role of the family and interpersonal interactions in shaping moral and spiritual values. Thus, integrating AI into the Catholic family requires balance and wisdom so that its benefits can be realized without compromising the essence and integrity of the family itself.

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Author's Profile

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METODIUS NASRANI, born in Beokina, 14 Februari 1997, domiciled in Landak, West Kalimantan - Indonesia, email: confortinasrani14@gmail.com. Education: Graduated from the Bachelor of Theology Program at STIKAS Santo Yohanes Salib, Bandol, in 2022. The current functional position is a postgraduate student in the Master of Theology Program at STIKAS Santo Yohanes Salib, Bandol.



Fransiskus Heryman Surya Gadur, S.S., M.Hum., born in Simpang Tiga, Untang, Banyuke Hulu domiciled in Landak, West Kalimantan - Indonesia, email: albert.bky122@gmail.com Education: graduated from the Bachelor of Theology Program at the STFT Widya Sasana Malang, in Graduated from the Master's Program at STFT Widya Sasana Malang, in Work experience: STIKAS Santo Yohanes Salib The current functional position is Asisten Ahli.