From technophobia to discernment: A Christian reflection on neuralink, ai regulation, and spiritual responsibility in society.

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Abstract

In the digital era, Artificial Intelligence (AI) and neurotechnologies such as Elon Musk's Neuralink are reshaping the relationship between technology, health, and human capability. While these innovations present new possibilities for individuals experiencing paralysis, neurological disorders, blindness, and severe communication impairments, they have also stimulated anxiety and suspicion in various Christian communities. The central research question guiding this study is: How can Christians discern and engage emerging technologies such as Neuralink without falling into technophobia or uninformed spiritual fear?

The objective of this research is to promote a theologically grounded and intellectually informed response to AI and neurotechnology within Christian contexts. The study employs a qualitative approach, integrating textual and theological analysis, literature synthesis, and reflexive interpretation. A contextual case study from rural Rwanda is examined, where misinterpretations of Revelation 13 and eschatological speculation contributed to widespread resistance to COVID-19 vaccination, school withdrawal, and fears of imminent apocalyptic events. Findings demonstrate that technophobia frequently arises not from lack of faith, but from insufficient theological formation and limited scientific literacy, which lead individuals to interpret technological advancements as spiritually dangerous. However, evidence indicates that AI and Neuralink hold meaningful potential to enhance quality of life, restore dignity, and provide healing support to vulnerable populations, values that resonate with the Christian call to compassion, caregiving, and restoration. The study recommends that Christian leaders incorporate structured technology education, sound biblical interpretation, pastoral dialogue, and community-based critical reflection into ministry practice. Such measures can equip believers to engage innovation with wisdom and discernment, fostering cooperation between faith and science rather than conflict or fear.

Keywords: Neurotechnology; Artificial Intelligence; Technophobia; Neuralink; Discernment; Healing and Human Dignity.

1.0.Introduction

Elon Reeve Musk, born on June 28, 1971, in Pretoria, South Africa, holds South African, Canadian, and American citizenships and is widely regarded as one of the most influential technologists and entrepreneurs of the twenty-first century. His visionary leadership has driven the creation of several groundbreaking enterprises that have transformed diverse sectors of modern life. These include Tesla, Inc., a leader in electric vehicles and renewable energy; SpaceX, a pioneer in space exploration and rocket technology; X Corp (formerly Twitter), a global social media and communications platform; The Boring Company, focused on tunnelling and urban transport innovation; and Neuralink, a neurotechnology company developing advanced brain–computer interfaces.

In May 2023, Neuralink received approval from the U.S. Food and Drug Administration (FDA) to initiate its first in-human clinical study, marking a historic milestone in the field of neurotechnology (CNBC, 2023). Founded in 2016, Neuralink aims to create implantable devices capable of interpreting and transmitting neural activity to external systems, allowing the brain to

communicate directly with computers (Ables, 2024; Davies, 2024). In 2024, Musk announced that the company's first human participant had undergone a successful brain implant procedure and was "recovering well," with promising early signs of neural signal detection (Ables, 2024; Davies, 2024). These advances not only represent a leap forward in neuroscience and medical technology but also provoke profound questions about human identity, consciousness, and the intersection of mind, body, and machine.

Amid these technological frontiers, this paper situates Neuralink within a Christian theological framework, exploring how faith communities can respond to emerging neurotechnologies not with fear or resistance, but with informed discernment and spiritual wisdom. Rather than viewing such innovations as threats to divine order, this study encourages believers to interpret them through the lens of biblical theology, moral responsibility, and human flourishing. By examining questions of embodiment, agency, and the theological meaning of creation and innovation, the paper seeks to equip Christians to engage constructively with these developments, recognizing technology as a potential instrument through which healing, restoration, and compassionate service can reflect the redemptive purposes of God.

1.1. Problem Statement
The rapid advancement of Artificial Intelligence (AI) and neurotechnology has generated a complex mixture of anticipation and anxiety within modern society. While scientific progress demonstrates the potential of these technologies to heal, restore, and enhance human well-being, many Christian communities have responded with suspicion and fear. In particular, innovations such as brain–computer interfaces and AI-driven systems are often interpreted through apocalyptic frameworks, with some associating them with the "mark of the beast" described in *Revelation 13:16–18*. These interpretations have fueled technophobia, deepening mistrust toward innovation and science.

The central issue lies in the absence of balanced theological reflection that bridges faith and scientific progress. In many African contexts, including Rwanda, technological responses are frequently shaped by religious narratives and cultural worldviews rather than informed understanding. Consequently, fear-based interpretations have led to tangible social consequences, such as school dropouts, voluntary job resignations, and community withdrawal from educational and digital initiatives.

Without thoughtful theological engagement and contextual awareness, emerging technologies risk being misunderstood, misrepresented, and misused, depriving society of their redemptive potential. Addressing this gap calls for a faith-informed approach that promotes discernment over fear, encouraging Christians to engage technology wisely and responsibly in service of human dignity and holistic development.

1.2. General Objective
The general objective of this study is to examine how Christians can respond to emerging technologies, such as Neuralink and Artificial Intelligence (AI), with informed spiritual discernment rather than fear. The study seeks to promote a constructive understanding of these technologies by exploring their potential benefits, their implications for human life and society, and their alignment with core principles of Christian teaching.

Specific Objectives
1. To explain the nature and function of Neuralink, highlighting its role in supporting individuals with paralysis, neurological disorders, blindness, and communication disabilities.
2. To analyze how misinterpretations of biblical passages, particularly *Revelation* 13 have contributed to technophobia and resistance to innovation within certain Christian communities

3. To propose a Christian framework of discernment that encourages wise, faith-guided, and informed engagement with emerging technologies in contemporary society.

1.3. Research Questions

This study seeks to explore how Christians can engage with emerging technologies such as Neuralink and Artificial Intelligence (AI) in a manner that is informed, discerning, and faithful. Specifically, it addresses the following questions:

1. How can Christians approach emerging technologies such as Neuralink and Artificial Intelligence with informed spiritual discernment rather than fear?
2. In what ways can Neuralink improve the lives of individuals with paralysis, neurological disorders, blindness, or severe communication disabilities?
3. How have misinterpretations of biblical texts, particularly *Revelation* 13 concerning the "mark of the beast," contributed to technophobia within certain Christian communities?
4. What Christian theological principles can guide believers in using technology wisely while remaining grounded in faith and spiritual responsibility?

2.0. Literature Review

Artificial Intelligence (AI) and neurotechnology have become some of the most significant forces driving modern scientific progress, offering new possibilities for human advancement. Recent research demonstrates that brain–computer interfaces (BCIs) developed by projects such as Neuralink are capable of restoring lost motor abilities, enabling direct communication for individuals with neurological impairments, and potentially reversing certain sensory disabilities (Frontiers in Neuroscience, 2023). These technological milestones reveal how the boundaries between human cognition and machine systems are becoming increasingly interconnected,

opening opportunities for medical innovation and new forms of human–machine collaboration.

In addition to medical applications, AI has been recognized as a powerful instrument for advancing social progress. A report by InstaDeep (2023) highlights that AI can be applied to address some of the world's most pressing issues, including climate change, healthcare delivery, and food production. When strategically implemented, AI systems can enhance agricultural forecasting, strengthen disease detection, and improve environmental monitoring. Such applications demonstrate the vast capacity of AI to support human welfare and contribute to sustainable development across diverse sectors.

The relationship between faith and technological innovation continues to attract scholarly attention. Theological thinkers increasingly affirm that technology itself is not a threat to spirituality but can become a channel through which divine creativity is expressed. Historically, many technological discoveries, such as the printing press, electricity, and later the internet, were initially approached with fear by religious communities but were later recognized as vital tools for communication and growth. As Campbell and Garner (2016) observe, technology often expands human potential and enables new ways of sharing religious knowledge and experience. Similarly, Pope (2021) notes that believers are encouraged to view innovation as part of humanity's participation in God's ongoing creative work in the world.

Responses to technology, however, are not universal; they are shaped by cultural and spiritual worldviews. In many African societies, including Rwanda, perceptions of emerging technologies are deeply influenced by collective memory, religious interpretation, and local traditions. Gifford (2009) observes that African Christianity often interprets scientific and technological developments through spiritual or eschatological lenses. This means that new inventions are sometimes viewed in relation to

biblical prophecy, the unseen spiritual world, or the end times. As a result, communities may respond to technological initiatives with caution when such developments are unfamiliar or not fully explained within their cultural context.

Mbiti (1999) reinforces this understanding by noting that African Christianity integrates faith into every aspect of daily life, meaning that scientific innovations are evaluated not only for their practical benefits but also for their harmony with spiritual and communal values. In Rwanda, for instance, this dynamic was evident during national vaccination and digital transformation campaigns. Certain rural communities expressed reservations, linking such programs to apocalyptic fears or perceived spiritual manipulation (MINICT, 2020). These responses highlight that technological acceptance depends not only on access or infrastructure but also on cultural interpretation and theological understanding. Encouraging dialogue between innovators and faith communities can therefore promote informed participation and greater appreciation for the role of technology in national development.

3.0. Methodology

This study employs a qualitative and theological research design, guided by interpretive and reflective inquiry. The purpose of this approach is not to measure or statistically analyze phenomena, but to understand the meanings, beliefs, and experiences surrounding the interaction between Christian faith and emerging technologies. The study seeks to examine how theological principles can inform responsible and ethical engagement with innovations such as Artificial Intelligence (AI) and Neuralink.

The first method used is textual analysis, focusing on selected biblical passages including Revelation 13, Deuteronomy 6:4–5, Matthew 10:16, and Matthew 25:13. These scriptures are examined through close reading, with attention to historical context, literary structure, and theological implications. This process allows the study to interpret the biblical message faithfully and to distinguish scriptural teachings from cultural or speculative misinterpretations. Through this method, the research clarifies that Christian ethics regarding technology must be grounded in sound theological understanding rather than fear or rumor.

The second component is literature synthesis, which involves reviewing scholarly works from theology, and technology studies. This includes academic discussions on artificial intelligence, brain–machine interfaces, and the moral responsibilities of innovation. Additionally, insights are incorporated from my participation in the Deep Learning Indaba, the flagship African gathering for researchers and practitioners working in AI and Machine Learning. This synthesis ensures that theological reflection is connected to current scientific advancements and global conversations about the future of human–technology interaction.

Finally, the study integrates reflexive analysis, recognizing the researcher as both a theologian and a technological innovator. My personal experiences within church communities, research institutions, and innovation ecosystems offer a valuable lens for understanding how faith and science intersect in real life. Reflexivity allows the research to remain grounded in lived experience, acknowledging how beliefs, identity, and community shape interpretations and responses to technology.

Overall, these qualitative methods work together to produce a study that is biblically faithful, intellectually informed, and socially relevant, offering guidance for Christians seeking to engage technology with wisdom, responsibility, and hope. Conceptual Frame Work
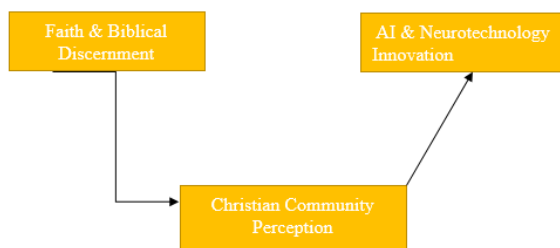
This conceptual framework illustrates how faith-based interpretation guides the way Christian communities understand and respond to emerging technologies such as AI and neurotechnological developments. Faith and biblical discernment forms the foundational lens through which believers interpret new innovations. This discernment directly influences the perceptions within Christian communities, determining whether new technologies are approached with openness, caution, or fear. In turn, these perceptions shape the overall response to AI and neurotechnology, either encouraging constructive engagement, learning, and acceptance or leading to suspicion, rejection, and technophobia.

The model shows that the response to technology does not arise from the technology itself, but from how faith shapes understanding. Therefore, strengthening biblical literacy, theological clarity, and spiritual discernment becomes essential for promoting informed and confident engagement with technological advancements.

3.1. Overview of Neuralink and Its Promise in Brain–Computer Interface Applications

Neuralink is a neurotechnology company established in 2016 with the goal of developing implantable brain–computer interfaces (BCIs) that enable direct communication between neural activity and digital systems (Musk & Neuralink, 2019). The company's primary device, known as the Link, is a coin-sized implant inserted into the skull, with ultra-thin electrode threads placed into the cerebral cortex to read neural signals. These threads record and transmit electrical activity wirelessly, allowing external devices, such as computers or robotic limbs, to be controlled through thought alone. Neuralink's hardware design prioritizes biocompatibility and signal stability, supported by a surgical robot capable of highly precise placement of the electrode threads (Neuralink, 2022).

Current clinical and experimental applications of Neuralink focus primarily on paralysis, severe mobility loss, and neurological disorders. For individuals with spinal cord injuries or ALS (Amyotrophic Lateral Sclerosis), the implant enables the restoration of control over external devices, potentially replacing or supplementing functions lost due to nerve damage (Frontiers in Neuroscience, 2023). Neuralink has also announced applications for neurological regulation, such as helping manage Parkinson's disease and epilepsy by recording and modulating neural circuits associated with motor tremors and seizure onset (National Institute of Neurological Disorders and Stroke, 2023). These applications position Neuralink not as a technology of enhancement, but initially as a medical assistive tool for restoring lost function.

A major advancement in Neuralink's pipeline is Blindsight, a visual prosthesis under development that aims to stimulate the visual cortex directly, bypassing damaged optic nerves. In 2024, the United States Food and Drug Administration (FDA) granted Blindsight Breakthrough Device status, recognizing its potential to partially restore vision in individuals with certain forms of blindness (U.S. Food & Drug Administration, 2024). Although early in development, this approach follows clinical precedents of cortical visual prostheses and could expand sensory restoration therapies if proven safe and effective.

Real-life case demonstrations highlight the human significance of these developments. In 2024, Noland Arbaugh, a quadriplegic man injured in 2016, gained the ability to move a computer cursor and play video games solely through thought using Neuralink's Telepathy device. Arbaugh described the technology as "restoring dignity," noting that while some accused the procedure of being

spiritually dangerous, his lived experience was one of empowerment rather than harm (ABC News, 2024). Similarly, in 2025, Audrey Crews, who had been paralyzed for two decades, used Neuralink to write her name using neural signals alone, an achievement that would have been impossible through conventional therapy (Reuters, 2025). These cases demonstrate Neuralink's potential not merely as a medical novelty but as a pathway to meaningful autonomy and communication for individuals long marginalized by physical limitations.

3.2. Theological Reflections

A central concern in discussions around technology and faith is the interpretation of Revelation 13:16–18, which describes the "mark of the beast." Some individuals interpret this passage through a modern technological lens, assuming that microchips, vaccines, or brain implants represent this mark. However, biblical scholarship emphasizes that the passage refers primarily to allegiance and worship, not physical devices. The "mark" symbolizes a person's ultimate loyalty, either to God or to systems that oppose God's purposes. Therefore, the issue at stake is spiritual allegiance, not technological tools.

Deuteronomy 6:4–5 commands believers to love God "with all your heart, with all your soul, and with all your strength." While many Christians emphasize emotional and spiritual devotion, the call to love God with one's strength also includes the use of intellect, creativity, and human capability. Developing, evaluating, and using technology responsibly can be understood as a faithful expression of this command, demonstrating stewardship of the mind and skills God has given.

In Matthew 10:16, Jesus instructs His followers to be "wise as serpents and innocent as doves." This passage encourages Christians to practice discernment, meaning neither blind acceptance nor fearful rejection of new developments. Believers are called to approach innovation with moral clarity, humility, and thoughtful evaluation.

Finally, Matthew 25:13 reminds Christians to "keep watch," for no one knows the exact hour of Christ's return. This teaching warns against speculative predictions and emotional reactions that lead to panic or withdrawal from society. Instead of abandoning education, healthcare, or technological progress based on apocalyptic rumors, Christians are encouraged to remain spiritually grounded, responsible, and engaged in the world.

4.0. Case Study: Rwanda, Eschatology, Rumor, and Technophobia in Community Context

Religious eschatological interpretations have played a significant role in shaping public reactions to technological and medical developments in Rwanda in recent decades. A notable example occurred in 2012 in Karongi District, when rumors spread that the return of Jesus Christ would take place on a specific night. Entire families, including my own, stayed awake in prayer and fear, anticipating the end of the world. When the expected event did not occur, the community experienced confusion, emotional exhaustion, and spiritual disappointment. This incident reflected the strong influence of oral prophecy culture and demonstrated how eschatological teachings can significantly affect daily life when not grounded in theological study (Maniragaba, 2014).

During the COVID-19 pandemic (2019–2021), similar patterns re-emerged. Public health guidelines from the Ministry of Health and the Rwanda Biomedical Centre (RBC) recommended vaccination as the most effective means to reduce mortality and prevent severe illness. However, in some rural regions, misinformation spread through informal preaching networks and social media platforms, framing the vaccine as "satanic" or as the "mark of the beast" in Revelation 13 (RBC, 2021). As a result, some teachers resigned to avoid mandatory vaccination, while students withdrew from school and families discouraged participation

in regular economic activities. These reactions were fueled by the misinterpretation of 2 Peter 3:8 and Psalm 90:4 which state, *"With the Lord, a day is like a thousand years,"* leading some to promote the Millennial Day Theory, which claims that the year 2027 would mark the end of human history (Uwizeyimana, 2022). Although there is no biblical or scholarly consensus supporting this theory, it gained traction among communities seeking simple explanations during a period of global uncertainty.

Additionally, in September 2025, another widespread rumor circulated that the world would end between the nights of 21st and 22nd September. The claim spread rapidly via WhatsApp audio messages and local church groups. In some areas, individuals gathered on hilltops to await the event, fasted, or sold household belongings in preparation for the anticipated apocalypse. Local church leaders and the National Council of Churches in Rwanda (NCCK) later intervened, emphasizing that Jesus explicitly teaches that "no one knows the day or the hour" (Matthew 24:36), encouraging believers to live faithfully rather than fearfully.

These repeated events demonstrate how technophobia, conspiratorial eschatology, and limited theological literacy can contribute to harmful social and economic disruption. In each case, communities acted not out of spiritual maturity, but out of fear-based interpretations fueled by rumor rather than Scripture. The case also reveals the need for pastoral discipleship, accurate public education, and partnerships between religious institutions and scientific bodies to support informed and balanced decision-making.

5.0. Results and Findings
The findings of this study indicate that emerging technologies such as Neuralink and Artificial Intelligence (AI) provide tangible solutions for restoring human dignity and addressing severe medical challenges. Cases where individuals with paralysis regained communication and mobility demonstrate that neurotechnology has the capacity to reduce suffering and enhance quality of life when applied responsibly. This affirms that technology, rather than being inherently destructive, can serve redemptive and restorative purposes when guided by ethical and humanitarian values (Frontiers in Neuroscience, 2023).

The research further revealed that technophobia, driven largely by misinformation and apocalyptic misinterpretations, has had harmful effects in certain Christian communities. Fear-based narratives have contributed to school dropouts, vaccine refusal, social withdrawal, and resistance to innovation, ultimately weakening community resilience. These patterns illustrate how misunderstanding technology can lead to real social and economic harm, particularly in rural contexts.

Additionally, biblical reflection in this study emphasizes that Christian discernment is not based on fear, but on wisdom, understanding, and spiritual vigilance. Scripture encourages believers to "get wisdom and understanding" (Proverbs 4:7), suggesting that knowledge, learning, and critical reflection are integral to faith. Therefore, technology should be seen as a tool that can either serve or harm depending on human intention, not as an automatic threat to spirituality.

Finally, the study shows that faith and science are not opposing forces, but can work together constructively. Christianity, when interpreted through a balanced theological lens, supports human creativity, healing, and stewardship. These values align with the goals of responsible technological advancement, demonstrating that collaboration between religious and scientific communities can foster well-informed, ethical, and life-affirming innovation.

6.0. Conclusion
This study has shown that technophobia, the irrational fear of technology, continues to shape spiritual, social, and economic attitudes within many Christian communities. Such fear often

emerges from misunderstandings of Scripture, particularly apocalyptic passages like Revelation 13, which some interpret as predicting modern technologies such as vaccines, microchips, or brain implants. However, theological and scholarly analysis indicates that the "mark of the beast" is not a physical device but a symbol of allegiance to systems and powers that stand in opposition to God. When fear replaces discernment, communities may reject beneficial technologies, hinder healthcare, disrupt education, and create unnecessary social division. Therefore, rather than responding with anxiety or suspicion, Christians are called to evaluate technological advancements with spiritual maturity, critical reflection, and faith.

6.1. Recommendations

To move from fear toward informed spiritual engagement, the Church and faith-based leaders should promote theological literacy that equips believers to interpret Scripture responsibly and avoid sensational or speculative teachings. Additionally, Christian communities should be encouraged to adopt a faith-driven engagement with emerging technologies, neither embracing them blindly nor rejecting them out of fear. Proverbs 4:7 reminds us: *"Wisdom is the principal thing; therefore, get wisdom: and with all thy getting get understanding."* By grounding decisions in biblical understanding, ethical reflection, and communal dialogue, believers can respond to technological developments with clarity and confidence. Ultimately, the appropriate Christian posture is one of responsible, Spirit-guided discernment, which seeks to honor God while contributing positively to human well-being and the flourishing of society.

6.2. Limitations and Future Research

This study recognizes several limitations that should be considered when interpreting its findings. First, Neuralink and similar brain–computer interface technologies are still in early stages of development, and much of the current understanding is based on preliminary trials and emerging scientific reports. As a result, the long-term medical, psychological, and social impacts remain uncertain. For example, future risks surrounding privacy of neural data, the possibility of hacking brain signals, and the physical effects of implanted devices, such as metal compatibility, tissue response, or long-term neurological side effects, have not been fully established. Therefore, while the present analysis highlights the positive potential of such technologies, the ethical and biomedical implications require ongoing monitoring and deeper inquiry.

Secondly, the case study from Rwanda reflects a contextual and culturally specific experience. The religious interpretations, community responses, and emotional reactions described may differ in regions with different historical, educational, or theological backgrounds. As such, the conclusions drawn here should not be assumed to apply universally but rather serve as a comparative foundation for further global research.

Additionally, the theological reflections presented in this paper draw primarily from Christian perspectives rooted in Protestant traditions. Interpretations of eschatology and spiritual discernment may vary among Catholic, Orthodox, and African Indigenous Churches. These differences influence how communities perceive and respond to technological innovations, suggesting the need for broader denominational dialogue.

6.3. Future Research Directions

Future studies should adopt interdisciplinary collaboration, involving experts in neuroscience, ethics, sociology, and law, to provide a more comprehensive understanding of how AI and brain–computer interfaces affect human identity, autonomy, and spirituality. Further research is also needed to explore the development of digital spiritual discernment training within churches, practical strategies that help believers evaluate technology neither with fear nor naïve acceptance.

Moreover, investigating the role of misinformation and conspiracy-based preaching in shaping

technophobic attitudes would provide insight into how educational and pastoral interventions can strengthen critical awareness. Finally, empirical research involving different cultural and religious contexts would broaden understanding, helping faith communities navigate technological change with wisdom, compassion, and informed confidence.

References

Ables, K. (2024, January 30). *Brain-chip start-up Neuralink implanted a device in its first live human subject, Elon Musk says. The Washington Post.* https://www.washingtonpost.com/business/2024/01/30/neuralink-musk-first-human-brain-chip/

Biography.com. (2024, May). *Elon Musk: Biography, entrepreneur, SpaceX and Tesla founder.* A&E Networks. https://www.biography.com/business-leaders/elon-musk

Campbell, H., & Garner, S. (2016). *Networked theology: Negotiating faith in digital culture.* Baker Academic.

CNBC. (2023, May 25). *Neuralink, the neurotech startup co-founded by Elon Musk, gets FDA approval for in-human study.* https://www.cnbc.com/2023/05/25/elon-musks-neuralink-gets-fda-approval-for-in-human-study.html

Davies, P. (2024, January 30). *Elon Musk says his Neuralink company has successfully implanted one of its chip implants into a human brain. Euronews.* https://www.euronews.com/health/2024/01/30/elon-musk-neuralink-first-human-brain-chip-implant

Forbes. (2020). *Could Elon Musk's Neuralink be a game-changer for people with disabilities?* Forbes Media. https://www.forbes.com

Frontiers in Neuroscience. (2022). *Neuralink and brain–computer interface innovations in medical rehabilitation.* Frontiers Media. https://www.frontiersin.org/journals/neuroscience

Frontiers in Neuroscience. (2023). *Recent advances in brain-computer interface technology: Medical and scientific applications.* Frontiers Media. https://www.frontiersin.org/journals/neuroscience

Gifford, P. (2009). *Christianity, development, and modernity in Africa.* Hurst & Company.

Gifford, P. (2009). *Christianity, politics and public life in Africa.* Hurst & Company.

Hanson, P. (2020). *Could Elon Musk's Neuralink be a game changer for people with disabilities? Forbes.* https://www.forbes.com

InstaDeep. (2023). *AI for social good: Addressing climate, health, and food production through innovation.* InstaDeep Research Report. https://www.instadeep.com

Instadeep. (2023). *AI and the future of humanity: Ethical frontiers in machine intelligence.* InstaDeep Research Report. https://www.instadeep.com

Maniragaba, A. (2014). *Religious belief and community behavior in rural Rwanda. Journal of African Religious Studies, 9*(2), 45–59.

Mbiti, J. S. (1999). *African religions and philosophy* (2nd ed.). Heinemann.

Ministry of ICT and Innovation (MINICT). (2020). *Rwanda digital transformation strategy 2020–2025.* Government of Rwanda. https://www.minict.gov.rw/strategic-documents

NanoEthics. (2024). *The presentation of brain-computer interfaces as autonomy-enhancing therapy products.* Springer.

National Institutes of Health. (2021). *An integrated brain-machine interface platform with thousands of electrodes. PubMed Central.* https://www.ncbi.nlm.nih.gov/pmc

Pope, K. (2021). *Faith and technology: The role of innovation in modern spirituality.* Oxford University Press.

Rwanda Biomedical Centre. (2021). *National COVID-19 vaccination campaign: Public health*

guidelines and uptake challenges. Ministry of Health.

The Holy Bible. *New International Version*.

Uwizeyimana, T. (2022). *Eschatology and public perception in Rwandan Pentecostal movements. African Journal of Theology and Society, 11*(1), 77–93.

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