International Journal of Innovation and Industrial Revolution
EISSN: 2637-0972
IJIREV
Volume 8 Issue 24 (March 2026) PP. 494-507

INTERNATIONAL JOURNAL OF INNOVATION AND INDUSTRIAL REVOLUTION (IJIREV)
www.gaexcellence.com/ijirev

GLOBAL ACADEMIC EXCELLENCE

DIGITAL ECONOMY AND ACCESSIBILITY: DEVELOPING INCLUSIVE TRAINING PROGRAMS FOR SPECIAL NEEDS POPULATIONS

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Article Info:

Article history:
Received date: 28.01.2026
Revised date: 15.02.2026
Accepted date: 26.03.2026
Published date: 31.03.2026

To cite this document:

Jahaya, N. M., Hanafi, A. H. A., Nor A'zam, M. K. Z., Ismail, M. S. I. & Che Sobry, S. (2026). Digital Economy and Accessibility: Developing Inclusive Training Programs for Special Needs Populations. *International Journal of*

Abstract:

The aim of this study is to investigate the exclusion of people with disabilities from the digital economy. This will help to provide a conceptual framework that incorporates the different digital platforms, accessibility features, and training that will best allow populations with special needs to gain the digital empowerment they need. The proposed framework integrates the Social Model of Disability, Universal Design for Learning (UDL), and Digital Accessibility and Inclusion models. The major challenges explored lead to actionable solutions, positioning the framework as a strategic guide for educators, platform creators, and policymakers. Ultimately, the practical and theoretical contributions of this paper outline how inclusive training translates into greater participation in the digital economy, fostering digital equity, financial independence, and broader socio-economic benefits for people with disabilities. The framework provides conceptual and practical insights for enhancing digital inclusion and economic participation among people with disabilities.

International Journal of Innovation and Industrial Revolution
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EISSN: 2637-0972
Volume 8 Issue 24 (March 2026) PP. 494-507

Innovation and Industrial Revolution, 8(24), 494-507.

DOI:10.35631/IJIREV.824031

Keyword:

Accessibility, Digital Economy, Inclusive Training Programs, Special Needs Populations, Universal Design For Learning (UDL)

Introduction

The digital economy has been transforming at an unprecedented pace in recent times, and with that, inclusivity and accessibility have gained significance in mainstream deliberations, especially solidarity with the special need community. Although digital transformation has had a profound impact on employment, education, and social participation, it has also aggravated existing inequities for people with disabilities (Manzoor, 2018). Besides, digital technologies are increasingly integrated into daily life and failing to provide accessible tools and resources may compound the exclusion of these populations, reducing their ability to participate in economic and social life (International Labour Organization, 2021). The growing prevalence of online services and interactions also calls for comprehensive training solutions that empower individuals with disabilities and their support networks to build and use their digital literacy skills. They needed to have other inclusive training programs that improved users' digital literacy, while ensuring that accessibility was integrated into every step of the technology development and implementation process (Radanliev, 2023; Moriña, 2020).

Digital inclusion is crucial in Malaysia as the nation advances its efforts to integrate disabled individuals into the digital economy. Although progress has been made, large gaps in accessibility still exist. It can be justified from the report by the Malaysian Communications and Multimedia Commission (MCMC) stating that while 10% of Malaysians would have some type of disability, less than one-digit percentage of digital services is fully accessible to them (MCMC, 2024). This difference highlights the need for targeted training programs that will help develop an individual's digital literacy and help participants engage more fully in the economy.

International Journal of Innovation and Industrial Revolution
IJIREV
EISSN: 2637-0972
Volume 8 Issue 24 (March 2026) PP. 494-507

The Digital Malaysia Blueprint focuses on equipping persons with disabilities with digital skills to leverage on existing technological advancement (TechForGood Institute, 2024). Such initiatives play a vital role in making digital platforms more accessible while also creating programs that truly support and empower the special needs community, helping them build confidence and skills in the digital world (Make The Right Real, 2024).

Moreover, inclusive digital training programs are essential to widen opportunities of individuals with disabilities. Studies indicate that digital literacy is a crucial gateway to many other forms of social inclusion. In this sense, Williams (2024) highlights the importance of particular educational interventions and discusses the challenges of developing digital literacy for those with unique educational needs. Similarly, the International Labour Organization (2021) highlights the need for focused training to close these gaps and describes the potential and difficulties presented by digital transformation for the inclusion of individuals with disabilities in the workforce. Additionally, Manzoor (2018) points out that digital technologies open up new paths for social inclusion by improving people with disabilities' access to jobs and education.

The current research gap is a lack of research on how modern digital tools can be developed to truly address the unique needs of individuals with disabilities and ensure that they have equal opportunities to flourish in the digital age. Little research has been done on how successfully these technologies may be adapted to differing socioeconomic backgrounds, in spite of advancements in digital literacy and tool accessibility. This shows the need for a study that compares digital solutions to improve accessibility and inclusivity. Therefore, this paper is organized in the following way: The Introduction describes the objectives based on research gaps; The Literature Review identify gaps based on previous studies; The Methodology explain methods and approaches to achieve the objectives; The Results and Discussion Part hiughlight the main results and findings; And the Conclusion summarises the this paper and suggests recommendations for future improvement..

Literature Review

The digital economy is the process of integrating digital technologies into all aspects of economic activities, which it has transformed how businesses function including the labor force. Accessibility within the digital economy mainly refer to the availability of digital products, services, and infrastructures to be utilised by everybody including special need people. Individuals with physical, cognitive, or sensory impairments are part of a special needs population that presents significant barriers to participating in this new economy. This exclusion can limit their access to education, employment, and social opportunities, entrenching economic and social inequalities (Manzoor, 2018).

In addition, inclusive training for special needs populations is an important step in achieving digital equity. These programs aim to train disabled people in the skills needed to use digital tools, empowering them to navigate their full participation in the economy. They also integrate accessibility measures into educational technology and platforms, outlining their usability for individuals with a wide range of abilities. For example, open education has become a key resource in narrowing the gap in accessibility, providing flexibility and inclusivity (Ramirez-Montoya, 2024).

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Relevant Theories and Models

The development of inclusive digital training programs has been initiated based on various theories and models. This issue highlights the need for research on how different digital solutions enhance accessibility. Conducting such comparisons can provide valuable insights into the most effective approaches for promoting inclusion. This model alters the burden to society and institutions to foster an inclusive environment more in line with work done at the intersection of digital equity and accessibility (Manzoor, 2018).

UDL is also a framework that encourages the development of inclusive teaching environments that meet the needs of all regardless of ability. Additionally, principles of Universal Design for Learning (UDL) advocate for flexibility in presentation, engagement, and expression, and can be applied to design digital training programs that allow special needs populations to engage. This model is suitable for collaborative open digital education spaces, that offer personalized learning experiences (Ramirez-Montoya, 2024). The Capability Approach established by Amartya Sen is also a relevant framework. This study focuses enhancing individuals' ability to fulfill their potential, instead of just access for resources or opportunities. As for digital inclusion, this paper underlines the importance of providing disable person with hand-on digital skills and experience through designed training. This helps them to actively participate in the digital economy (Tiasakul, 2024).

Research Gaps and Conclusion

Moving toward digital inclusion, further investigation is needed in understanding the latest technologies that could help to fulfil the unique needs of people with disabilities. Most of the previous studies mainly focus on access features and training courses separately but failed to examine the possible impact of combining both elements toward larger digital ecosystems (OECD, 2023).

Therefore, it is important to understand the long-term effect of comprehensive computer training programs for special needs people toward their participation in economic and social activities. Gaining these insights can help shape a more effective cumulative learning approach. Additionally, there remains a gap in research focused on the scalability and adaptability of these programs in diverse socio-economic and cultural environments. Closing these gaps will enable researchers and policymakers to develop meaningful strategies that make the digital economy truly inclusive and accessible for everyone.

Clearly, although there have been strides in these concerns through the design of inclusive digital training programs, a more comprehensive strategy must be adopted to develop inclusive materials. Adopting models such as the Social Model of Disability, Universal Design for Learning and the Capability Approach will help to establish and tailor more effective programming. This will enable special needs populations to participate fully in the digital economy, and the policymaking effort and research needs to continue toward the goal of a better, more accessible and user-friendly digital ecosystem. Table 1 highlights various studies that investigate the digital economy and promote accessibility for developing inclusive training programs for the special need's population

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Table 1: Past Studies

Author	Year	Title	Method	Key Findings
Manzoor, M.	2018	Digital Technologies for Social Inclusion of Individuals with Disabilities	Qualitative Study	Digital technologies can facilitate the social inclusion of people with disabilities. Accessible digital platforms and assistive technologies are crucial for social participation.
Ramirez-Montoya, M. S.	2024	Inclusive Digital Education on Open Platforms: A Case Study	Case Study	Open educational platforms help bridge accessibility gaps, promoting inclusive education for people with disabilities in various learning environments.
Tiasakul, S.	2024	Accessibility of Entrepreneurship Training Programs for People with Disabilities	Quantitative Study	Digital social innovation can improve accessibility in entrepreneurship education, enabling people with disabilities to acquire entrepreneurial skills and participate in the economy.
OECD	2023	Digital Equity and Inclusion in Education	Policy Analysis	Digital technologies, when strategically implemented, promote equitable and inclusive education, helping bridge the gap for people with disabilities.
Community Tech Network	2023	Digital Inclusion for People with Disabilities	Survey Research	One in three people with disabilities in the U.S. are offline due to accessibility challenges. This digital divide significantly impacts their access to education and employment.

A 2023 study by the Community Tech Network highlights the ongoing digital divide, revealing that one in three people with disabilities in the U.S. still lack internet access. As a result, many are left without crucial opportunities for education and employment (Community Tech Network, 2023). Similarly, the OECD (2023) analysis emphasizes that equitable digital technologies can help close accessibility gaps and highlight the importance of inclusive education for people with disabilities. Besides, the case study by Ramirez-Montoya (2024) describes how open educational platforms are critical for building inclusive learning environments for disabled learners, thus enhancing digital literacy (Ramirez-Montoya, 2024).

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In a similar vein, Tiasakul (2024) draws attention to digital innovation as a means to support entrepreneurship education among people with disabilities so that they can partake in economies (Tiasakul, 2024). These studies highlight the significance of digital inclusion in creating educational and economic opportunities for people with disabilities. Figure 1 presents a proposed conceptual framework for the study of the impact of digital economy and accessibility on the design of inclusive training programs for special needs populations.

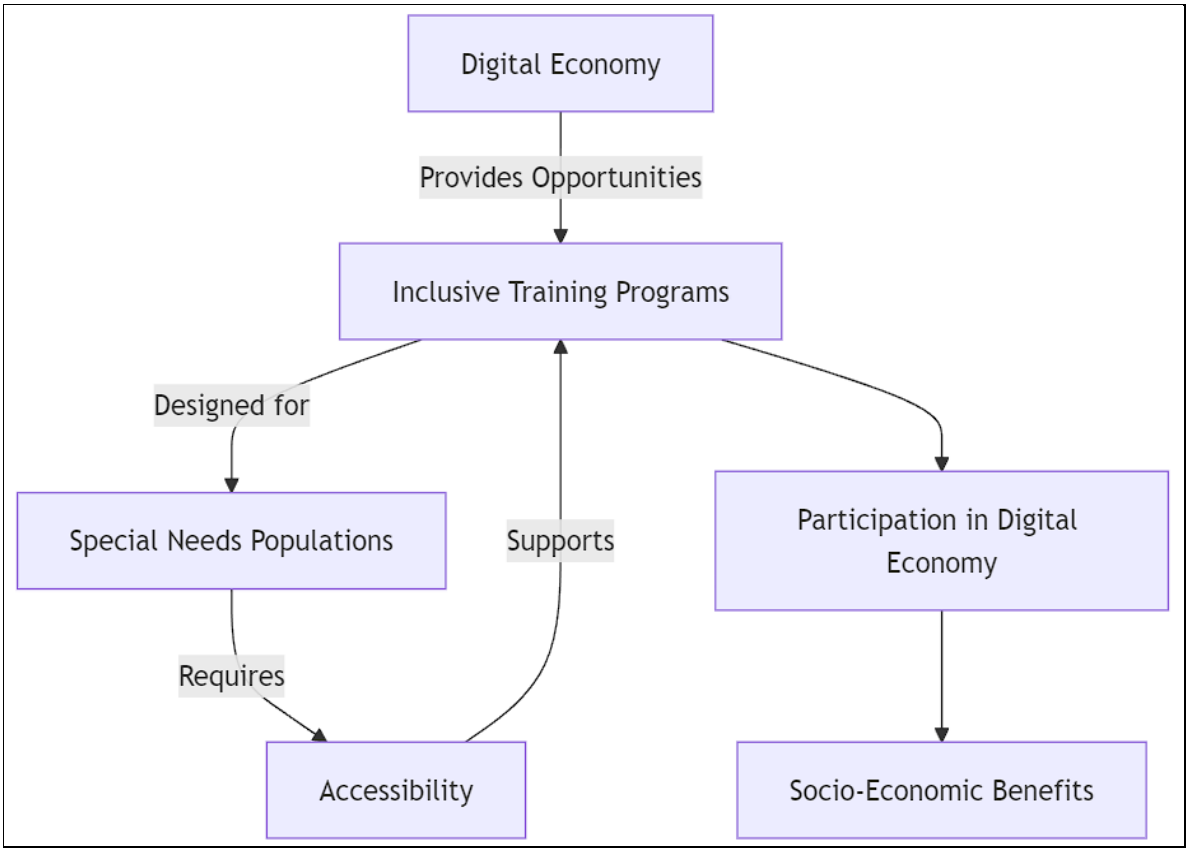

Figure 1: Proposed Conceptual Framework

The Digital Economy ultimately lays a foundation by providing digital tools and economic opportunities that, when utilized effectively, can empower marginalized groups such as individuals with disabilities (Manzoor et al., 2018). Accessibility is essential for ensuring equal participation, as digital platforms must incorporate accommodations through assistive technology and universal design to meet diverse needs (Venkatesan, 2024). The framework supports the design of Inclusive Training Programs, which cater specifically for the needs of Special Needs Populations and minimize the barriers such as usability and access that Special Needs Populations may encounter (González, 2024). They can only serve as true proof of progress if they are adaptable. This means that the accompanying teaching materials must be easily accessible and directly enhance participants' ability to thrive in the digital economy. Hence, the final Result of this interaction is growing participation of disabled people in the digital economy, and enhanced socio-economic benefits, and improved digital equity (Fernández-Batanero, 2022).

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Methodology

This study embraces a conceptual research design to navigate the interrelations between the digital economy, accessibility and the emergence of inclusive training initiatives for special needs population. The principles are grounded on past literature regarding digital accessibility research, inclusive training practices and involvement of disabled groups in the digital economy. The research design is non-experimental and descriptive, and the purpose is to generate theoretical insight, rather than hypotheses tested through the collection of empirical data (Creswell, 2018).

Population, Sample Size, and Sampling Technique

This conceptual study seeks to address the following populations: scholars, experts and practitioners who have published or worked in the areas of digital economy, accessibility, inclusive education, and disability studies. As this is a conceptual paper, no direct sample has been drawn from a population of individuals with disabilities. However, a purposive sampling approach has been applied to the literature review, ensuring the inclusion of studies and theoretical frameworks relevant to digital inclusion and training for special needs populations (Palinkas et al., 2015).

Data Collection

This research is conducted based on secondary data collection. The data are gathered from the peer-reviewed journals, government reports, books, and trusted databases: ScienceDirect, SpringerLink, and PubMed. The selected studies and frameworks are analysed systemically to identify crucial concepts, interconnections, and theoretical gaps that contribute to the core of the conceptual model herein (Snyder, 2019).

Data Analysis

The analysis of the data is performed through thematic analysis of the reviewed literature. Concrete and specific insights addressing key implications, such as the role of digital tools in accessing economic opportunities and web accessibility mechanisms for users with special needs, are elaborated here and synthesized into a model for designing inclusive training programs. This, in turn, enables the formulation of a coherent conceptual framework demonstrating the connections between the digital economy, accessibility, training schemes, and socio-economic outcomes for disabled people (Braun & Clarke, 2006).

Variables and Measurement

The study defines several conceptual variables:

- Digital Economy: Measured in terms of the infrastructure, tools, and opportunities it provides to special needs populations.
- Accessibility: Assessed by the degree to which digital platforms and training programs incorporate assistive technologies and user-centered designs.
- Inclusive Training Programs: Evaluated based on criteria such as adaptability, inclusiveness, and usability for individuals with disabilities.
- Special Needs Populations: Defined by various forms of disabilities, with focus on their barriers and facilitators for accessing digital resources. Outcomes will include

International Journal of Innovation and Industrial Revolution
IJIREV
EISSN: 2637-0972
Volume 8 Issue 24 (March 2026) PP. 494-507

participation in the digital economy and the potential socio-economic benefits resulting from enhanced accessibility and training.

Reliability and Validity of Questionnaires Construct

The reliability of the conceptual framework will be evaluated by ensuring the constructs remain consistent. This will be done by referencing well-established scales and measures from previous studies (Kimberlin & Winterstein, 2008). To ensure content validity, subject matter experts in the fields of digital accessibility and inclusive education will be consulted to ensure that all the relevant dimensions of the concepts are covered to an adequate level.

Discussion

The main objective of this study is to understand the correlation between inclusive training programs for individuals with special needs and accessibility into digital economy. The proposed framework provides a conceptual idea on digitalization through ICT accessibility and inclusivity. Based on previous studies, elements of digital economy, accessibility, inclusive training programs, special needs populations and other outcomes are related to one another.

Digital Economy and Its Impact on Accessibility

The rise of the digital economy creates large opportunities to engage with global markets, but it comes with big challenges for people with disabilities. Thus, businesses should design their digital tools to fit all users including people with disabilities. Previous studies show that when digital platforms are accessible and inclusive, it led to economic development by creating diversity in the workforce (Darejeh & Singh, 2013). However, the digital economy might create problem especially if it failed to provide accessibility solutions in the mainstream digital economy. McKinsey & Company (2020) highlight that digital skills is the key elements in being able to participate in the digital economy. Thus, the need for easily available training options is further supported.

Accessibility as a Foundational Component

The ability of users with special needs to use digital tools and technologies that help them to access digital platforms is one of the accessibility elements. The use of assistive technologies including screen readers, voice recognition software, and customizable interfaces is crucial for bridging the accessibility gap (Lazar et al., 2017), as identified in previous studies. But accessibility cannot be limited to the technology, it also has to cover the user centered design principles that accommodate different disabilities during the design phase of digital tools (Venkatesan, 2024). Accessible avenues are increasingly recognized as the first and foremost drivers of economic inclusion for special needs populations, arguably putting accessibility on the agenda of both private and public spheres (Hanna, 1999).

Inclusive Training Programs for Special Needs Populations

With regard to accessibility, Inclusive Training Programs play a very vital role in providing special needs populations with the skills needed to enter into the digital economy. These programs need to be user-friendly and customizable and adaptable to the unique needs of different disabilities. Researchers are increasingly identifying the need to incorporate universal

International Journal of Innovation and Industrial Revolution
IJIREV
EISSN: 2637-0972
Volume 8 Issue 24 (March 2026) PP. 494-507

design for learning (UDL) frameworks into training programs, to ensure that they are adaptable and functional across heterogeneous populations (Meyer et al., 2014). The UDL-based training programs not only help individuals learn new skills, but there is also evidence that they positively impact long-term employability, promoting a growing sense of inclusion and empowerment among persons with disabilities (Kearney et al., 2019).

Special Needs Populations and Unique Barriers

Literature documents the unique barriers to care for Special Needs Populations. These also encompassed physical (e.g., mobility impairment, visual or auditory limitations) and cognitive (e.g., learning challenges, memory impairments) (World Health Organization, 2021) disabilities barriers. The lack of emotional support and the variety of other obstacles mentioned above should be considered when designing both the training and the digital tools themselves for the special needs community. Furthermore, the Social Model of Disability views disability as something created by environmental barriers rather than individual limitations. This perspective emphasizes the need for inclusive design and policy changes to break down these obstacles and create a more accessible world (Venkatesan, 2024).

Outcomes and Socio-economic Benefits

In general, this research seeks to enable people with disabilities to engage in the digital economy and enjoy the socio-economic benefits associated with it. As it has been demonstrated through research, with the right technological tools built for accessibility and proper training special needs people can be a sizeable portion of the workforce and enjoy financial independence (Barlaskar et al., 2022). Digital Inclusion has also been shown to correlate with greater social integration and quality of life among disabled people (Jaeger, 2012), since on-line access opens up access to social services, education or jobs. Hence, it becomes even more important that accessibility and inclusiveness are the bedrock of digital platforms and at the same time, the bane of training programs to unleash the socio-economic potential of these demographics.

Theoretical and Practical Implications

Besides briefly discussing the Social Model's applicability to accessibility and the digital economy, the paper makes theoretical advancements of the Social Model of Disability. Besides, it advances the Social Model of Disability theoretically while discussing the Social Model of Disability with regards to accessibility and digital economy. From a pragmatic viewpoint, they make a case for the scarcity of work with their evidence exemplifying the diverse coordination of educators, platform creators, and policy makers to collectively develop digitally accessible spaces and provide holistic education. For example, according to Lazar et al. (2017), the Digital Accessibility and Inclusion model considers accessibility to be one of the resultant aspect within digital tools at all stages of their respective development hence, addressing a need for accessibility, not only during their use in the form of accessibility but also during tool design, hence pipeline of inclusion.

Finally, the conceptual framework in this study ends with identifying the relationship between training programs to people with different needs, accessibility, and the digital economy. In this case, training programs that are inclusive and accessibility issues can be addressed to ensure

that handicapped people are fully included in the digital economy, with a significant impact on their social and economic success.

Conclusion

In conclusion, the findings highlight the need for specific strategies to provide marginalized groups such as special need people opportunities in digital economy and create a sustainable and inclusive future. These findings suggest that there are considerable opportunities for economic involvement through the opportunities presented through digitalisation, but that there are barriers to accessibility that make full engagement by people with special needs impossible. Making digital platforms usable requires assistive technologies and user-centred design, highlighting the need to embed accessibility features from the start. Through teaching frameworks – such as Universal Design for Learning (UDL) – inclusive training programs are vital in ensuring that people with disabilities acquire the skills and education necessary to partake in the digital economy. The Social Model of Disability states that barriers faced by the disabled individual are rooted in the environment as opposed to within the individual, hence special needs populations face a unique set of barriers that require specific solutions. Moreover, the social impact of enhancing access and inclusion is increased socio-economic inclusion, financial independence, and social inclusion for these groups.

Theoretically, the study expands the Social Model of Disability to the digital milieu with attempts to remove digital barriers. UDL in the Workforce This work also adds to the UDL literature and helps take UDL outside of typical education contexts in schools and classrooms and into workforce development and training programs. They further emphasize the Digital Accessibility and Inclusion (DAI) model, highlighting the importance of embedding accessibility at the initial stages of digital tool development.

Practically, the study recommends to legislators, educators and tech developers that even small tweaks can have a big impact. These recommendations start with adopting accessibility standards and introducing inclusive training programs and technologies. However, the study cannot be validated empirically because of its theoretical nature. To get around these restrictions, more research must test the suggested framework in practice, thoroughly examine additional particular disabilities, and take into account broader socioeconomic obstacles like systematic bias or financial injustices. The sustainability and long-term effects of inclusive training programs could also be assessed through longitudinal studies, and cross-contextual comparisons between nations could offer insights into the best ways to enhance digital accessibility in various sociopolitical contexts. However, the technology, policy, and education spheres must collaborate to guarantee that those with disabilities can fully engage in the digital economy. This study offers a framework that, while still needs to be empirically confirmed, can provide organizations, sports, and events with the ability to combine theory and practice to cater to people with special needs and making the world more inclusive and accessible.

Acknowledgements: The authors would like to express their sincere gratitude to Universiti Teknologi Mara (UiTM), Kedah Branch for providing the necessary resources and support throughout the course of this research. Special appreciation is extended to colleagues and peers who contributed valuable insights and constructive feedback, which greatly enhanced the quality of this paper.

Funding Statement: This research received financial support from Tabung Penyelidikan Am under UiTM Kedah Branch. The funding body had no role in the design of the study, data collection, analysis, interpretation of results, or the decision to publish this manuscript.

Conflict of Interest Statement: The authors declare that there is no conflict of interest regarding the publication of this paper. All authors have contributed to this work and approved the final version of the manuscript for submission to the International Journal of Innovation and Industrial Revolution (IJIREV).

Ethics Statement: This study did not involve any human participants, animals, or sensitive data requiring ethical approval. The authors confirm that the research was conducted in accordance with accepted academic integrity and ethical publishing standards.

Author Contribution Statement: All authors contributed significantly to the development of this manuscript. Author 1 and Author 2 were responsible for the conceptualization, methodology, and overall supervision of the study. Author 3 and Author 4 handled data collection, analysis, and interpretation of results. Author 5 contributed to the literature review, drafting, and critical revision of the manuscript. All authors read and approved the final version of the manuscript prior to submission.

International Journal of Innovation and Industrial Revolution
IJIREV
EISSN: 2637-0972
Volume 8 Issue 24 (March 2026) PP. 494-507

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