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## THE ROLE OF LANGUAGE IN THE DIGITAL AGE: IMPLICATIONS FOR HUMAN DEVELOPMENT AND CULTURAL IDENTITY

Khofizhoah Mohd Karim<sup>1\*</sup>, Mohd Rizal Safar<sup>2</sup>, Mariah Darus @ Mat Junus

<sup>1</sup> School of Government, Universiti Utara Malaysia, Malaysia

 [fizhoah@uum.edu.my](mailto:fizhoah@uum.edu.my)

 <https://orcid.org/0009-0009-0071-3282>

<sup>2</sup> School of Government, Universiti Utara Malaysia, Malaysia

 [s.rizal@uum.edu.my](mailto:s.rizal@uum.edu.my)

 <https://orcid.org/0000-0001-8490-0548>

<sup>3</sup> School of Government, Universiti Utara Malaysia, Malaysia

 [m.darus.mat@uum.edu.my](mailto:m.darus.mat@uum.edu.my)

 <https://orcid.org/0009-0007-6387-0352>

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### Abstract:

This paper examines the intricate relationship between digital technology, language and human development, with a particular focus on the role of the Malay language in shaping identity and cultural integrity in the digital era. Using a qualitative secondary data approach, the study systematically analyses scholarly literature to identify key trends, challenges and theoretical perspectives on how digitalisation influences linguistic behaviour and cultural values. The findings reveal that while digital technology enhances communication, creativity and global engagement, it also contributes to the erosion of linguistic politeness, grammatical precision and cultural etiquette. Despite these challenges, the digital sphere offers opportunities to revitalise the Malay language through innovative content creation, online education and AI-driven linguistic tools. The study concludes that digital transformation should not be viewed as a threat but as a catalyst for balanced human development. Sustaining Malaysia's linguistic and cultural heritage requires an integrated approach that aligns technological proficiency with ethical communication and moral awareness. By embedding cultural and linguistic ethics within digital literacy, Malay language can continue to serve as the soul of the nation and a vital foundation for holistic human development in an increasingly digitalised world.

### Keyword:

Cultural Identity, Digital Technology, Human Development, Linguistic Ethics, Malay Language



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## Introduction

The era of digital technology has drastically transformed the landscape of human communication. The emergence of social media, instant messaging applications and artificial intelligence has made interactions faster, more concise and capable of transcending cultural and geographical boundaries. However, this transformation has also introduced new challenges in language use particularly in terms of accuracy, politeness and the role of language in shaping cultural identity.

In line with the passage of time, the rapid evolution of digital technology has significantly influenced the way people think, communicate, use language and construct personal and social identity. Language, traditionally understood as a medium of communication also serves as an essential instrument for building character, reinforcing cultural identity and conveying human values. Nevertheless, the rise of new norms of communication in digital spaces has shown a tendency to overlook elements of courtesy, precision and empathy. This phenomenon is especially evident among the younger generation, raising concerns about the sustainability of human values that have long been preserved through linguistic etiquette and cultural decorum (Hartini et al., 2023).

From the perspective of human development, this challenge bears profound implications. Holistic development cannot be grounded solely on material or technological advancement. Instead, it requires a balance between technological competence and the preservation of moral values and cultural identity (Nasir & Zaini, 2025). Thus, ethical language use in digital environments must be given serious attention as one of the cornerstones of balanced human development. Formal and informal education, family influence and governmental policies play crucial roles in strengthening digital communication ethics to align with the aspirations of human development (Suerni, 2024).

Human development in the digital age must be mobilised in a balanced manner, emphasising both technological progress and the empowerment of humanistic values. Such efforts are vital to ensure that a technologically literate generation also possesses linguistic politeness, cultural identity and moral integrity (Friesem, 2016). Language, in this regard, is not merely a tool of expression but also a medium through which thought, manners and social identity are cultivated.

In the Malaysian context, the relationship between digital technology and the Malay language is particularly significant. As the national language and symbol of unity, Malay functions not only as a mode of communication but also as a carrier of cultural values and collective identity. Language use in Malaysia reflects complex multilingual practices, with digital platforms increasingly shaping communicative behaviour and linguistic norms (Esme et al., 2025).

There are challenges lies in humanising digital communication through the Malay language. While the language evolves alongside technology, it continues to uphold the essence of Malay politeness, empathy and communal values. Educational institutions, media practitioners, and policymakers must collaborate to cultivate digital literacy that incorporates ethical linguistic awareness. This requires integrating critical language pedagogy into curricula and literacy programmes that enable users to navigate online interactions responsibly and respectfully, balancing linguistic innovation with respect for established linguistic norms (Shing, 2025).

Ultimately, the digitalisation of communication should not result in the erosion of cultural identity but become an opportunity to revitalise the Malay language as a modern, dynamic and inclusive medium that bridges tradition and innovation. By integrating ethical language practices into digital culture, Malaysia can nurture a generation that is technologically adept and morally grounded and culturally resilient, embodying the true spirit of balanced human development in the digital era.

## Literature Review

### *Language and Human Development in the Digital Age*

Language plays a fundamental role in shaping human thought, personality and moral values. Empirical research shows that language functions not merely as a communication system but also as a medium that reflects cognition, cultural norms and social identity, with language choices closely tied to how individuals conceptualise and interpret their world (Alejandro, 2024). This aligns with the longstanding linguistic relativity perspective, which proposes that language influences cognitive processes and categorisation of experience across cultures (Musayevna, 2024). Moreover, in the Malaysian sociocultural context, Malay has been recognised as integral to mental representation, cultural continuity and collective identity, where linguistic transmission conveys not only information but also normative frameworks and ethical principles (Yussof, 2025).

According to Omar (2015), language serves as a vessel of culture and a reflection of a community's identity, and recent research continues to affirm that language use in social and educational environments plays a significant role in internalising moral conduct and cultural values through daily linguistic interaction (Ainal Akmar Ahmad et al., 2025). The mastery of language is therefore integral to holistic human development: without adequate command of language, the formation of balanced individuals is incomplete, as linguistic proficiency underpins both communicative competence and the moral compass that guides interpersonal behaviour, ethical judgement and cultural understanding.

The advancement of digital technology has significantly expanded the space for human interaction. Contemporary sociolinguistic scholarship demonstrates that networked digital environments restructure communication patterns and social norms in profound ways (Androutsopoulos, 2023). While this development facilitates the dissemination of information and global connectivity, it simultaneously alters communication conventions, identity formation and linguistic practices within society.

Language remains a vital symbol of national and cultural identity. Recent research confirms that language loss or marginalisation in digital spaces can weaken cultural continuity and collective memory (Blommaert & Varis, 2022). In the Malaysian context, the Malay language

plays a central role in fostering unity and maintaining national identity. Yet, the growing dominance of English and hybridised forms in digital communication continues to reshape linguistic hierarchies and perceptions of prestige (Lee, 2022).

From a developmental perspective, language continues to function as a primary mediating tool for reasoning and social cognition in technologically mediated environments (Mercer & Howe, 2021). In the digital context, linguistic interaction on online platforms influences patterns of thinking, communicative behaviour and identity negotiation among younger generations. This underscores the necessity for linguistic awareness and ethical considerations in digital communication.

Recent scholarship further emphasises that digital literacy must integrate ethical and linguistic dimensions in order to cultivate socially responsible and critically aware users (Pangrazio & Sefton-Green, 2021; Ng, 2022). Without such integration, technological competence may develop independently of moral and communicative responsibility. Concerns regarding linguistic dominance have also evolved in the digital era. Studies on multilingual digital spaces demonstrate that global language hierarchies continue to influence online visibility and content production, often privileging English over local languages (Darvin & Norton, 2021). This dynamic necessitates strategic efforts to sustain the vitality of Malay within global digital ecosystems.

Consequently, Malay language risk being sidelined or perceived as less relevant within the global digital environment. Hashim (2020) reinforces this concern, arguing that the national language is merely a symbol of sovereignty and the foundation of national unity. The preservation and empowerment of the Malay language in digital communication are essential to safeguard Malaysia's linguistic and cultural sovereignty.

### ***The Malay Language and the Digital Technological Landscape***

The intersection between digital technology and the Malay language presents both opportunities and challenges. On one hand, digital media provides new avenues for the revitalisation of the Malay language through creative content, online education, and social media platforms that enable dynamic language use and linguistic engagement (Panjaitan & Patria, 2024; St. Thomas & Susanti, 2025). These digital tools and contexts can support language learning, broaden communicative practices, and encourage creative expression, thus allowing Malay to evolve in culturally relevant ways. On the other hand, the fast-paced and informal nature of digital culture encourages linguistic simplification, code-switching, and the neglect of grammatical and stylistic norms.

Code-switching between Malay and English are documented as normative in Malaysian social media communication, with strategic use across platforms illustrating both pragmatic and identity-related functions (Ismail & Sani, 2025). Such hybridity may contribute to reduced adherence to standardised linguistic structures, especially when transferred from digital contexts into formal written communication. Expressions such as “*I tak sure*” or “*Let's lepak jap*” exemplify this hybridisation, where Malay and English elements are combined within discourse. Research on digital communication demonstrates that code shift phenomena among Generation Z and other young users involve lexical, syntactic, and pragmatic shifts marked by slang, acronyms, and mixed-language forms, challenging traditional norms of grammar and

style (Azmi et al., 2025). This linguistic fluidity can have implications for language proficiency in formal domains if not mediated by directed language education.

To address these challenges, Malaysia promotes digital linguistic responsibility. The conscious, ethical and creative use of the Malay language in online communication. Educational institutions, policymakers and media practitioners play a critical role in embedding linguistic ethics into digital literacy programmes. Digitalisation of Malay language education, supported by school administrators and language professionals, can strengthen pedagogical approaches that integrate technology with language instruction (Abdul Wahid & Mahamod, 2025). Initiatives such as the development of Malay-language digital content, AI-based linguistic tools and online platforms that prioritise Malay as a user interface can strengthen the presence of the national language in the digital landscape.

Ultimately, the sustainability of the Malay language in the digital age depends on both policy implementation and societal attitudes. The willingness of Malaysians to value and use their national language as a modern, adaptable medium is central to its survival and growth. The occurrence of code-switching in digital communication highlights the need for pedagogical strategies that address both informal digital practices and formal language competence, encouraging learners to navigate linguistic choices appropriately across contexts (Ismail et al., 2025). The integration of linguistic ethics and cultural consciousness into digital communication practices will ensure that technological progress complements, rather than displaces, Malaysia's linguistic heritage. In doing so, the nation can nurture a generation that is both technologically proficient and culturally grounded, embodying the balance between innovation and identity that defines comprehensive human development in the digital era.

## Methodology

This study adopts a secondary data approach to examine in depth the existing body of literature related to language, digital technology, human development, cultural identity and their implications in the contemporary context as shown in **Figure 1**. Scholarly articles, books and previous empirical studies were systematically reviewed and critically analysed to strengthen the understanding of key concepts and evaluate their relevance to the current patterns of language use in society.

A structured literature review procedure was employed, guided by principles of systematic review to ensure transparency in the identification, selection and evaluation of sources. Inclusion and exclusion criteria were established based on relevance, publication credibility and thematic alignment with the research objectives. The materials reviewed include both local and international publications with particular emphasis on works that discuss the intersection between the Malay language and digital communication.

To analyse the secondary data, the study applied thematic analysis as outlined by Virginia Braun and Victoria Clarke (2006, 2019), complemented by elements of qualitative content analysis as conceptualised by Philipp Mayring (2014). The analytical process involved systematic coding of recurring concepts, categorisation of patterns and identification of dominant themes across the selected literature. Themes were generated inductively and refined through iterative comparison to ensure conceptual coherence. This method enabled the synthesis of theoretical perspectives and empirical findings while maintaining analytical depth and interpretive rigour.

Furthermore, the study explores the advancement and implications of digital technology in shaping language use among contemporary Malaysian society. Specific attention was given to identifying current trends in digital linguistic behaviour, including the use of abbreviated or hybrid forms, and the impact of social media communication norms on linguistic politeness, identity construction and cultural expression. The analysis also considered the opportunities presented by digital innovation, particularly in promoting the creative and inclusive use of the Malay language through online education, digital content creation and artificial intelligence applications.

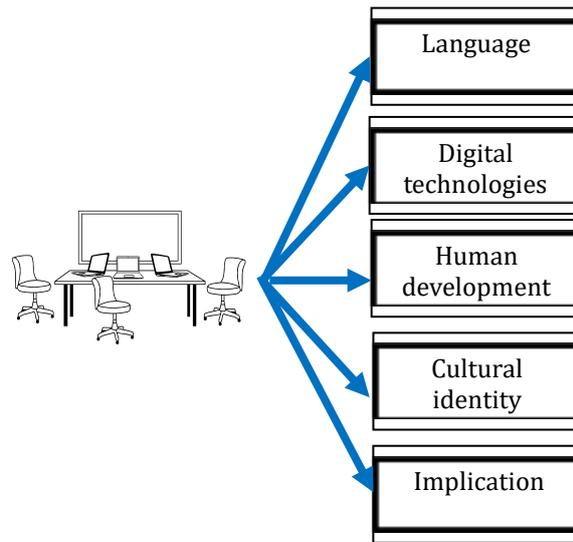
By adopting this comprehensive interpretive approach grounded in thematic and qualitative content analysis, the study aims to obtain a holistic and integrated understanding of the suitability and sustainability of digital technology in supporting human development and cultural identity through language. This approach allows for the exploration of both the empowering and diminishing effects of digital transformation on linguistic and cultural integrity.

In conducting this study, a qualitative interpretive paradigm was applied, as it enables the researcher to explore not only observable trends but also the underlying socio-cultural meanings attached to digital language practices. The analytical process was guided by three main objectives:

1. To identify dominant themes and theoretical perspectives regarding the relationship between language, technology and human development.
2. To critically evaluate how digital technology influences the use and perception of the Malay language within the digital sphere.
3. To synthesise findings that could support the development of language-based digital ethics and national linguistic policies.

This methodology is appropriate given the interdisciplinary nature of the research, which intersects linguistics, sociology, communication studies and cultural anthropology. The reliance on secondary sources allows for an extensive exploration of the topic, offering a macro-level understanding of the linguistic implications of digitalisation within Malaysia's socio-cultural framework.

The findings of this study are expected to contribute to a more meaningful academic discussion on the implications of digitalisation for language use, particularly the role of the Malay language as a medium of identity formation, cultural continuity and moral development in the evolving technological landscape. It is anticipated that this analysis will inform educators, policymakers and cultural practitioners on strategies to balance technological advancement with linguistic and ethical responsibility, ensuring that digital progress reinforces rather than weakens the role of language in shaping Malaysia's national identity.



**Figure 1 Secondary Research**

Source: Authors

## Findings

**Figure 2** summarises the central role of language usage in technology and its interconnected impacts on human development. It shows how digital technology influences language norms, identity formation, and cultural change, while also shaping communication practices. At the same time, it highlights challenges in preserving appropriate language use as technology continues to transform linguistic and social interactions.

### *Language as the Foundation of Human Development*

Language constitutes the most fundamental tool of communication in human life. Without language, individuals would be unable to interact, transmit knowledge or build civilisations. In the Malaysian context, the Malay language serves as the national language and also as a vital medium in shaping the moral character, intellectual reasoning and social consciousness of its people. Thus, language functions as a central pillar in the holistic development of individuals, encompassing intellectual, emotional and social dimensions.

Language acts as a vehicle for transmitting information, constructing thought and reinforcing cultural identity. Within the framework of human development, it also shapes manners, moral values and social relationships. As Nasir and Zaini (2025) highlight, the loss of linguistic politeness equates to the erosion of one of the key foundations of a balanced human being. Through language, cultural wisdom and ethical conduct are inherited, particularly in the Malay linguistic tradition that embodies moral values within proverbs and traditional verse. For instance, the proverb *better to lose a child than to lose one's customs* reflects the deep cultural emphasis placed on preserving values and traditions. Hence, language functions as both a mirror and a medium for moral and intellectual growth within society.

Moreover, language enables harmonious interaction among Malaysia's multi-ethnic population. As the official language of the nation, Malay unites citizens of diverse ethnic, cultural, and religious backgrounds. Through a shared language, mutual understanding and

social cohesion are strengthened, fostering national unity and peace. The use of Malay in intellectual activities such as debates, speeches and academic writing promotes disciplined thinking and respectful dialogue. Learners are encouraged to express opinions in a structured, polite, and critical manner, illustrating that language proficiency is intrinsically linked to intellectual maturity, creativity, and innovation.

### ***Language, Technology and the Transformation of Human Values***

Digital platforms have transformed how individuals express ideas and construct identity. Research on digital narratives and identity construction indicates that online self-presentation is fluid, multimodal and continuously negotiated through language choices (De Fina & Georgakopoulou, 2023; Putra, 2024).

Technological literacy must therefore coexist with linguistic and ethical awareness. Contemporary analyses argue that digital participation requires reflexive engagement with language norms to prevent the erosion of communicative civility (Pangrazio & Sefton-Green, 2021). The increasing use of hybrid Malay English expressions reflects linguistic adaptability; however, sustained exposure to non-standard forms may influence perceptions of linguistic authority and cultural authenticity (Lee, 2022).

### ***Language as a Driver of Holistic Human Development***

It can thus be concluded that language is not merely a tool of expression but the foundation of comprehensive human development. From education to nation-building, language serves as a bridge connecting knowledge, culture and morality. A nation's intellectual and moral progress depends on how it values and cultivates its linguistic heritage. The Malay language embodies the collective memory and wisdom of the Malaysian people, functioning as both a symbol of identity and a vehicle for social cohesion.

In the digital age, sustaining the relevance of Malay requires conscious efforts to integrate it meaningfully within technological ecosystems. Educational institutions, policymakers and media agencies promote the use of Malay in digital education, academic publishing and creative industries to strengthen its presence online. Encouraging the development of Malay-language digital content can revitalise its function as a living, modern language suited for global communication. Ultimately, language appreciation and preservation are merely cultural acts and essential components of sustainable human development. Every individual bears responsibility for upholding and dignifying their mother tongue, ensuring that linguistic and cultural legacies endure in an increasingly digitalised world. By aligning technological innovation with ethical language practices, Malaysia can continue to cultivate a society that is intellectually progressive, morally grounded, and linguistically proud.

### ***The Influence of Digital Technology on Linguistic Norms***

In the era of rapid globalisation, digital technology has permeated every aspect of human life, revolutionising the ways in which individuals interact, communicate, and express themselves. Platforms have become dominant mediums for daily communication. However, alongside these conveniences, a subtle transformation has occurred: the erosion of traditional linguistic norms that once upheld politeness, grammatical accuracy, and cultural refinement in language use, particularly among younger generations (Han, 2024).

Digital communication has introduced a new set of linguistic conventions characterised by speed, brevity, and visuality through the use of emojis, GIFs, stickers, and memes (Han, 2024; Gao, 2025). While such modes of expression enhance efficiency and emotional nuance in online conversations, they also contribute to a decline in linguistic discipline and decorum. Suerni (2024) notes that students and social media users often adapt their language to suit digital contexts, adopting a casual and abbreviated style. Similarly, studies on social media interactions among young users demonstrate widespread use of shorthand, abbreviations, and expressive symbols, reflecting both creativity and the weakening of linguistic sensitivity when transferred into formal or academic communication (Tusa'adah & Djauhari, 2025; Akbar et al., 2025).

The tendency to communicate quickly has also led to the increased prevalence of code-mixing between Malay and English, as well as the widespread use of non-standard abbreviations. Expressions are frequently observed in text messages and social media interactions (Akbar et al., 2025). This linguistic shortcutting not only reflects the informal nature of digital discourse but also risks undermining the mastery of standard Malay grammar and vocabulary, especially among students who begin to normalise such usage in formal writing (Gao, 2025).

Moreover, social media has become a space for unfiltered emotional expression, often resulting in the use of harsh or disrespectful language. Traditional Malay values emphasising courtesy and linguistic etiquette are increasingly neglected (Yustinah et al., 2025). The rise of phenomena such as keyboard warriors underscores the erosion of ethical and respectful communication. The cultural principle of speaking with humility and choosing words carefully, deeply rooted in Malay tradition, is often replaced with impulsive, confrontational digital exchanges (Paramata et al., 2025).

Instant messaging platforms such as WhatsApp, Telegram, Twitter, and TikTok further encourage spontaneous, rapid communication. This immediacy often leads users to disregard correct grammar, spelling, or sentence structure. Alarming trends show that students frequently carry this informal digital style into academic essays and examinations, thereby weakening their ability to write coherently in standard Malay (Tusa'adah & Djauhari, 2025; Han, 2024). Such tendencies suggest that digital fluency has come at the cost of linguistic precision.

Despite these challenges, it is essential to recognise that digital technology is not inherently detrimental to language. Rather, it offers opportunities to modernise the use of Malay in digital spaces, promote creative linguistic innovation, and connect diverse communities (Han, 2024; Akbar et al., 2025). The key lies in maintaining a balance between technological efficiency and linguistic ethics. Society, particularly educators, parents, and policymakers, must work collectively to instil digital linguistic awareness that preserves the values of politeness, accuracy, and respect embedded in the Malay language (Yustinah et al., 2025).

Ultimately, safeguarding linguistic ethics in the digital era is vital not only for maintaining language quality but also for sustaining cultural identity and moral integrity. The Malay language, as both a tool of communication and a vessel of civilisation, must continue to uphold its role in shaping human character while adapting to the evolving landscape of digital technology (Paramata et al., 2025).

### ***The Influence of Digital Technology on Human Development***

In the rapidly evolving digital era, technology and language have become central forces in shaping the social and cultural fabric of contemporary societies. These transformations extend beyond technical innovation, influencing deeper dimensions of personal and collective identity. Recent interdisciplinary research confirms that digital communication environments restructure linguistic norms, identity performance and social participation across networked societies (Androutsopoulos, 2023; Blommaert & Varis, 2022). This study therefore explores how the interaction between digital technology and language affects human development, particularly in relation to identity formation and cultural continuity within the Malay context.

The relationship between technology and language can be understood as dynamic and reciprocal. Digital platforms have expanded the boundaries of communication and social interaction, enabling users to construct and negotiate identities through multimodal and multilingual resources (Darvin & Norton, 2021). Contemporary studies in digital discourse further demonstrate that social media environments facilitate strategic self-presentation and narrative positioning across diverse communicative spaces (De Fina & Georgakopoulou, 2023; Putra, 2024). Simultaneously, language itself continues to evolve within digital ecosystems, characterised by emergent terminology, compressed syntactic forms and adaptive linguistic practices shaped by platform affordances (Lee, 2022).

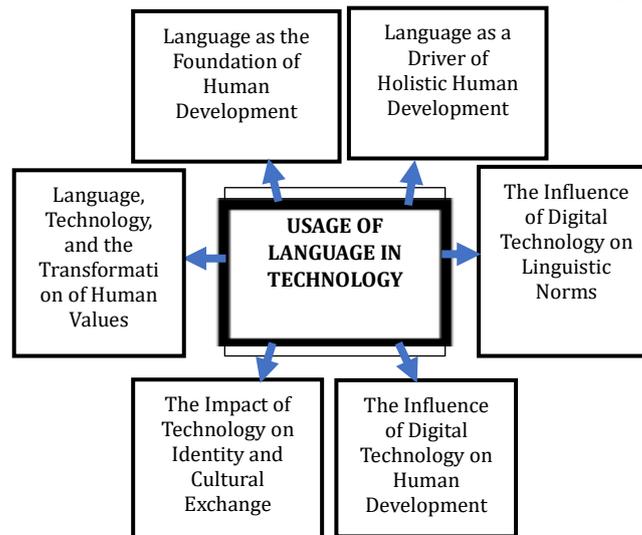
This evolution has generated new forms of cultural representation in which identity is fluid, relational and continuously reconstructed through digital interaction. Empirical research indicates that digitally mediated communication reshapes how individuals establish social ties, interpret cultural difference and construct selfhood within globally interconnected networks (Blommaert & Varis, 2022; Androutsopoulos, 2023). In the Malay speaking context, these transformations present significant implications for linguistic politeness, cultural continuity and collective identity, particularly as digital norms intersect with long standing traditions of courtesy and communal values.

### ***The Impact of Digital Technology on Identity and Cultural Exchange***

The relationship between technology and identity can be understood as dynamic and reciprocal. Digital platforms enable individuals to negotiate identity through multilingual and multimodal resources (Darvin & Norton, 2021). Narrative approaches to digital discourse further show that identity in online environments is constantly reconstructed through storytelling, interaction and linguistic positioning (De Fina & Georgakopoulou, 2023).

The expansion of immersive digital environments and AI mediated communication has intensified debates about authenticity and ethical responsibility in language use. Recent discussions in philosophy of technology highlight the importance of embedding linguistic ethics within artificial intelligence systems to preserve human centred communication values (Floridi & Chiriatti, 2022).

The growing integration of AI driven language technologies introduces both innovation and ethical complexity. Scholars caution that large language models may reproduce biases and reshape communicative norms if not carefully governed (Bender et al., 2021). This development reinforces the need to align technological innovation with linguistic integrity and cultural sensitivity within Malaysian digital contexts.



**Figure 2 Findings**

## Conclusion

Digital technology has profoundly transformed the ways in which humans communicate, use language and connect with one another. While it has opened vast opportunities for knowledge access, creativity, and global engagement, it has also introduced significant challenges to the development of the human and the preservation of cultural identity. Within the context of the Malay language, these challenges are particularly critical, as the language serves not only as a tool for communication but also as a vessel for transmitting values, moral conduct, and collective identity.

Despite its undeniable benefits, the rapid expansion of digital communication has brought about a gradual erosion of linguistic refinement, cultural etiquette, and ethical awareness in online interaction. The dominance of short forms, mixed languages and emotionally charged or impolite expressions has weakened the role of language as a vehicle of civility and cultural heritage. In this regard, language must continue to be upheld as a key element of human civilisation that nurtures thought, empathy, and respect in the midst of technological advancement.

A balanced approach is therefore essential in fostering holistic human development in the digital age. Technological mastery should not be pursued at the expense of linguistic integrity or cultural rootedness. Instead, digital progress must be accompanied by conscious efforts to cultivate ethical communication, cultural literacy, and language appreciation among all levels of society. In the Malaysian context, this means reinforcing the position of Malay language as the core of national identity while encouraging its evolution in digital spaces that reflect modern creativity without losing traditional values.

Ultimately, the true measure of progress in a digital society lies not merely in technological sophistication, but in the harmonious integration of technology with moral, linguistic, and cultural wisdom. Through this integrated approach, digital technology can serve not as a force of alienation, but as a catalyst for developing individuals who are intellectually empowered, culturally grounded, and morally resilient. Such an alignment ensures that the spirit of language

as the soul of the nation remains strong, even in the ever-evolving landscape of digital communication.

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