

# Interplay of Humanisation and Critical Digital Pedagogy in Higher Education

Khadija Muhammad Hussain Marvi<sup>1</sup> & Dr. Malik Ghulam Behlo<sup>2</sup>

<sup>1</sup> PhD., Department of Education, Fatima Jinnah Women University, Rawalpindi, Pakistan

<sup>2</sup> Department of Education, Fatima Jinnah Women University, Rawalpindi, Pakistan

Correspondence: Khadija Muhammad Hussain Marvi, Fatima Jinnah Women University, Rawalpindi, Pakistan.

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## Abstract

This chapter examines humanization in education as a transformative strategy that reinstates critical consciousness, agency, inclusivity, and dignity in digital higher-education settings. Humanization is presented as an ongoing process of awareness, reflection, discourse, and practice. It is based on Paulo Freire's emancipatory philosophy and informed by Gloria Ladson-billings' culturally appropriate teaching. The chapter makes the case that education is fundamentally political and influenced by culture, power, and ideology, especially in digital settings where algorithmic prejudice, surveillance, and digital capitalism are prevalent. The study highlights a research vacuum in creating scalable, evidence-based, and useful frameworks that link social justice, ecological responsibility, and emerging technologies like generative AI to critical digital pedagogy. Although current research emphasizes care and resistance in digital instruction, it often lacks transferable models and quantifiable results across diverse international contexts. The chapter presents black twitter as a digital counter-public that platforms, by elevating underrepresented perspectives, questioning prevailing narratives, and encouraging dialogical engagement, embodies humanizing pedagogy. Critical media literacy, democratic agency, and global awareness can all be advanced by including such venues in online schooling.

**Keywords:** humanization, critical pedagogy, digital pedagogy, learning ecologies, anthropocene

## 1. Introduction

Humanization in education refers to recognizing students' identities, languages, and experiences while acknowledging them as complete intellectual, emotional, social, and cultural persons. Shaji et al. (2025) stated that humanization fosters work, dignity, and respect while fostering a critical understanding of injustice and authority. Consequently, humanization transforms education from teacher-centered to student-centered, from passive reception to active engagement, from control to empowerment, and from silence to discourse, in contrast to dehumanization, which silences or marginalizes research-based strategies that connect environmental responsibility and digital literacy in the competence of teachers for a humanistic way of education. Moreover, Shisira (2025) stated that the relational paradigm that acknowledges the agency and intellect of more-than-human beings replace the traditional anthropocentric and industrial methods of education in order to address planetary concerns.

Critical digital pedagogy emphasizes the use of digital instruction to advance justice, discourse, and critical thinking (Zayd, 2023). Critical digital pedagogy emphasizes the influence of human development, resistance, and care in digital environments. However, Daniel et al. (2023) stated instead of offering solid data or precise models that may be applied in many major constructs of humanism, the majority of research describes specific classroom experiences. There are still insufficient scalable and useful frameworks that link theory to regular teaching practice (Elizabeth, 2022). Conversely, the issues of the Anthropocene, a period in which human activity has a significant impact on the earth, necessitate that education expand beyond digital skills that are focused on humans and students must comprehend their relationship to the environment and cultivate a sense of worldwide awareness. Whereas, Peter (2024) stated that some scholars talk about ecological and post-human approaches to education, but little study has been done on how critical digital pedagogy may actively encourage the learning of higher-order thinking skills in classroom settings.

The purpose of creating stronger democratic educational systems and more equitable communities, humanistic thinking emphasizes communication, critical thought, empathy, respect for culture and identity, and the moral application of technology (Marjon & Bram, 2022). However, learning becomes a space for influence when black twitter is included in online education through critical digital pedagogy, social media literacy, reflective discourse,

ethical participation, and assessment of humanistic education (Mia & Robert, 2023). Therefore, black twitter supports representation, elevates underrepresented voices, challenges digital hegemony, and fosters democratic engagement because educational systems and digital technologies are influenced by historical, political, racial, and economic power structures. Humanizing education is filled with difficulties (Tristen, 2025). Although coping knowledge, institutional transformation, social and moral development, and culturally relevant instruction are all necessary for true humanization, established power, digital capitalism, racial inequality, and conventional educational standards frequently oppose it.

The major focus is to explain humanistic development for students, and how humanistic belief encourages reflection on presumptions, validates traditional knowledge, sustains a variety of worldviews, and links learning to students' lives, influenced by experience and culture. Moreover, how they reveal hidden power systems, challenging prevailing narratives, and encouraging alternative modes of knowing aids in the critical examination of ideology, which determines power, culture, and knowledge.

### *1.1 Meanings of Humanistic Ideology*

Humanisation is the process of creating structures, interactions, and behaviors that recognize people's cultures and experiences, allow them genuine options, and respect their dignity. Thus, roxana (2022) describes humanization philosophy as placing a strong emphasis on appreciating linguistic variation, acknowledging lived experience, and appreciating cultural identity. In line with Gloria Ladson-Billings' culturally relevant education, which sees culture as an asset rather than a deficiency. Moreover, humanistic belief encourages reflection on presumptions, validates traditional knowledge, sustains a variety of worldviews, and links learning to students' lives; and they are developed by experience and culture (Lydia & Brendan, 2022). It shows hidden power systems, challenging prevailing narratives, and encouraging alternative modes of knowing aids in the critical examination of ideology, which determines power, culture, and knowledge (Huma, 2024). Ran states:

*“Humanism emphasises individual worth, dignity, and potential. In same context, the psychological perspective is people are capable of thinking, making decisions, and improving their lives via reason and education is a central principle of humanism, such as; positive regard, understanding, authenticity, and dialogical interaction. The model explains that individual assistance providers' typical beliefs are influenced by humanistic principles (Ran, 2023).”*

*“Humanistic worldview encourages people to develop their skills and make constructive contributions to society by supporting freedom of equality. It fosters a worldview in which compassion and human wellbeing are essential to social and everyday life. Likewise, Mansour et al. (2025) shows a useful impact to support incorporating intellectual development education is provided by humanistic principles and it is promotes ecological perspectives such as; the growth of well-rounded, socially conscious people and raises the general standard of education. Furthermore, Pakistani intellectuals, Asad et al. (2024) also emphasize the importance the association between social media use in the modern digital age has emerged with crucial field of study, especially for college students.*

Sheila, (2024) argues, ecological dimension of humanization goes beyond individuals to include relational thinking, acknowledging our interconnectedness with the environment, opposing the idea that humans are unique, and encouraging sustainability. Therefore, four steps make up the ongoing process of humanization: awareness of injustice and covert power structures; reflection on one's positionality and beliefs; discussion through meaningful conversations; and action (praxis), which combines action and reflection to change systems (Andrew et al., 2021).

*“The major dimension of this chapter is humanization techniques in education are to treat students with understanding. Hence, awareness, justice, and helpful direction, all of which are strongly related to humanistic education. In same context, teachers need to more equipped to assist students' social development when they realize the features and processes of humanization, such as appreciating students' emotions, fostering engagement, and advancing dignity. In this approach, skilled educators contribute to the creation of learning environments where students feel valued, inspired, and self-assured”. Conversely, Raja et al. (2025) indicates the immediate ecological challenges facing the world, it is more important than ever to comprehend how students learn and use environmental knowledge.*

### *1.2 Humanization and Digital Higher Education*

Iryna et al. (2023) stated that instead of only giving directions, teachers in schools must value students' opinions, actively listen to their ideas, and let them co-create curriculum. The main objective of this chapter is integrate humanization in digitalize higher education during online pedagogy. Therefore, it is viewing that individuals as active participants in their own lives as opposed to passive objects under the rule of outside forces. Moreover, Paulo Freire emphasized that education should not just teach scholars to obey norms or take in knowledge without questioning, but also enable them to think critically. Education must enable oppressed people to voice their opinions, agency, dignity, and critical consciousness. Humanization makes education political, ethical, and pedagogical by empowering individuals to become participants of their own history through discussion, introspection, and action (praxis), whereas dehumanization silences and marginalizes (Hastangka et al., 2025).

Besides, the role of school in promoting humanization is turn student who thinks, feels and acts for the good of others. Additionally online mode influences humanization by expanding access and perspective and best as blended with physical teaching not total replacement. Humanistic education promotes the development of the whole person rather than just intellectual abilities. Moreover, humanistic education assessment considers more than just test results; it also considers how pupils grow in values, creativity, and empathy. It places a strong emphasis on comprehending pupils' emotions, thoughts, and individual objectives. Likewise, education, humanization refers to treating pupils with dignity, consideration, and focus on their unique needs. Although, teachers can assist students in learning in a nurturing setting that prioritizes both information and personal growth by integrating evaluation with humanization”.

Fidan (2025) stated that Humanization guarantees that education and technology empower marginalized voices, advance knowledge democracy, and encourage perpetuating oppression in the face of digital inequality, colonial epistemologies, achievement gaps, structural racism, and the climate crisis. Moreover, philosophically, humanization is influenced by existentialism, which emphasizes freedom and authenticity, post-humanism, which incorporates ecological and relational thinking, humanism, which emphasizes dignity and reason, and critical theory, which challenges dominance and authority (Giulia, 2024). Moreover, it is about educating oneself into existence, taking part in the creation of reality, and becoming active subjects of history.

*“The key concept in modern philosophy is humanization, which aims to give human life greater significance, morality, and compassion. However, contemporary philosophy studies modern concepts and problems of human existence, science, technology, politics, and society. Similarly, it places a strong emphasis on defending human values, including freedom, empathy, dignity, and commitment. Therefore, humanization promotes intellectual, moral, and social development. Additionally, it helps people become responsible members of society by encouraging education, critical thinking, and respect for others”.*

Black Twitter a software used by black community, promotes Black culture, reinforces community identity, and re-centers marginalized narratives. However, humanization in digital spaces requires critical engagement, ethical participation, challenging algorithmic bias, and creating inclusive environments but, black twitter shows that digital tools can both reproduce oppression and be reclaimed for liberation. In online education, this fosters students as co-creators of knowledge, centers marginalized voices, replaces hierarchy with dialogue, and transforms passivity into agency, embodying digital humanization.

By incorporating it into online learning, humanization is put into practice through encouraging student involvement, group discussions, and the creation of shared knowledge (Shaista, 2021). Moreover, critical consciousness is necessary for humanization. Black Lives Matter hashtags on Black Twitter, for example, draw attention to injustice, expose systematic racism, promote critical awareness, and spur action. Carrie (2024) stated that Students gain media literacy, political consciousness, and ethical reasoning by examining Black Twitter, which supports emancipatory education. Next, humanization theory has a direct connection to liberty and freedom; intellectually freedom: Black Twitter affirms marginalized methods of knowledge, opposes digital hegemony, and challenges prevailing ideology. It transforms freedom into intellectual strength in online education by encouraging creative thinking, critical inquiry, and ability to resist false information (Claudio & Anna, 2025). Social Liberty: Black Twitter facilitates collective resistance, collaboration, and community agency moving from analysis to action praxis, which is essential to Freirean humanization and humanization transforms power structures (Robert, 2020).

Third, the mainstream media frequently emphasizes whiteness, silences lived realities, and misrepresents Black communities. Black Twitter fights racial stereotypes, provides real-life tales, and amplifies authentic Black viewpoints. According to humanization theory, marginalized groups regain their humanity when they advocate for themselves (Beatrice & Vusi, 2025). Sayed (2025) stated that encouraging communication, collaborating on knowledge creation, implementing project-based learning, encouraging critical media literacy, and utilizing culturally sensitive teaching and partnership models can humanize social and educational practices.

*“The goal of humanization techniques is to make digital systems and procedures more focused on individuals by emphasizing human values and experiences, as well as by continuously enhancing systems through response to input, through achieving a balance between technological effectiveness. Additionally, Regardless of where they live, it gives Pakistani students access to educational materials and instruction (Nor et al., 2025).”*

## **2. Promote Humanistic Thinking**

A perspective that emphasises human dignity, freedom, accountability, empathy, and critical awareness is known as humanistic thought. Therefore, Donald (2024) stated that people are capable of development and creativity. Then, thinkers like Carl Rogers, who advocated learner-centered education founded on empathy and authenticity, and Paulo Freire, who focused on dialogue and emancipation, are closely linked to this concept in social theory and education. Moreover, intentional actions in society, education, and personal life are necessary to advance

humanistic thought; So, this encourage discussion rather than authority: linked with humanized education promotes open conversations, respects differing viewpoints, permits challenging prevailing notions, and substitutes critical thinking for memorizing (Samikshya, 2025). Furthermore, Freire indicated toward a shift from the "banking model" of education in which knowledge is deposited to dialogical, and participatory learning.

*“Students' intellectual and social growth is greatly supported by the promotion of humanistic thinking. It promotes virtues like cooperation and accountability to others. In addition, teachers' can foster strong relationships and help students comprehend other points of view by creating a supportive learning environment. Besides, students consequently develop learning choices and make constructive contributions to society”.*

*Significantly, Hassan and Ahmad (2023) identify the gap for Pakistani students founding in the way they said, encouraging humanistic thinking, which places a strong emphasis on social responsibility and critical thought, Pakistani students must participate in globalization and notable gap between the advancement of human-centered ideals in public debate, education, and governance with the quickening pace of global integration. Continuingly, Sardar (2026) recently shared his view for Pakistani digitally struggling students, define, globalization brings opportunities for innovation in trade through enabling citizens to critically engage with global forces while upholding local values, encouraging inclusive development, and encouraging responsible participation in the global community can be strengthened within Pakistan's educational institutions, policy frameworks, and civic culture. However, Pakistan's future reposes on how well educationist prepare students for the world they will inherit.*

### 2.1 Humanism and Critical Digital Thinking

The development of humanistic thinking is important in various fields. This is fostering self-awareness, moral responsibility, self-assurance, autonomy, and the ability to make thoughtful decisions, humanistic thinking helps people grow their identity and character (Mansour et al., 2025) (Personal Development). In same context, humanistic thinking increases democratic involvement, fosters inclusiveness and tolerance, lessens prejudice, and supports amicable dispute settlement. As demonstrated by movements such as Black Lives Matter, it opposes injustice and upholds human dignity (Social Development).

Therefore, reducing achievement gaps, appreciating variety, encouraging student participation, and supporting lifelong learning, humanistic philosophy changes education from one of control to one of empowerment (Educational Development). Likewise, promoting social justice, opposing repressive structures, supporting human rights, and encouraging critical citizenship, humanistic philosophy empowers people to fight for just and equitable institutions (Political Development). Similarly, Stephen, Vikki, Sinan, and David (2020) stated that economic and workplace development: In the workplace, humanization promotes moral leadership, teamwork, clear communication, and creativity, resulting in more productive and long-lasting human-centred work environments. Thus, humanistic thought promotes ecological responsibility, global harmony, and an understanding of the connection between nature and humanity, which aids in tackling issues such as inequality and climate change (Development of the World and Environment).

*“Respect for pupils' uniqueness and personal development is emphasized by the development of humanistic philosophy in education. When paired with humanistic student-teacher learning, teachers assist and mentor students instead of exerting control over them. This fosters an atmosphere where students feel appreciated, are free to express themselves, and grow both intellectually and personally”.*

Furthermore, critical reflection approach helps students become more conscious of power and ethical responsibility by teaching them to question who benefits and who is excluded, analyze their own views and presumptions, and investigate societal issues such as racism, injustice, and inequality. Humanistic critical thinking can be developed in following ways: such as; Value, culture and identity: When students' languages and cultures are respected, indigenous and marginalized knowledge is incorporated, and representation is evident in curricula and media, humanistic thinking emerges (Tetiana et al., 2024). One important strategy that helps with this is Gloria Ladson-Billings' culturally sensitive teaching. Then, encourage empathy and emotional Intelligence: Humanistic thinking, which is cultivated through perspective-taking, storytelling, sharing life experiences, and active listening, and calls for viewing people as complete human beings rather than objects. Moreover, Support agency and participation: When students are treated as active participants rather than passive recipients, they develop humanistic thinking. This can be achieved through project-based learning, decision-making, cooperative problem-solving, and knowledge co-creation. Maksim et al. (2021) stated that utilize technology critically to ensure that technology advances humanity rather than subjugates it, digital education should emphasize literacy, combat algorithmic bias, encourage moral online conduct, and elevate underrepresented voices.

*“Humanistic critical reflection has an impact on education by moving students to consider their identity, culture, and beliefs and how they affect how they perceive the world. Reflecting on their experiences and viewpoints makes students more conscious of various points of view, which fosters the growth of empathy and emotional intelligence.*

*Students feel more comfortable sharing their thoughts and taking ownership of their education as a result of this reflective process, which also fosters agency and engagement. Additionally, students can investigate a variety of information sources and consider how digital tools impact society and knowledge by using technology carefully and critically. Humanistic critical reflection thus contributes to the development of more reflective, responsive, and committed students”.*

*“The Pakistan focuses a strong emphasis on the use of technology and education to create intelligent, responsible citizens. Therefore, students are taught to think critically regarding digital information, challenge inaccurate data on social media, and utilize technology for social benefit rather than only concentrating on technical skills. Moreover, a nation where social media sites like Facebook, WhatsApp, and YouTube have a significant impact on public opinion, encouraging digital literacy enables people to evaluate online content, respect different viewpoints, and make wise decisions. Considerably, Pakistan's educational system may solve issues like disinformation and digital inequality while preparing young people to contribute positively in a society that is quickly digitizing.”*

### *2.2 Increasing Student Involvement in Online Education*

Black twitter as a teaching tool develop knowledge of social media, promote active participation as opposed to passive consumption, supports learning to critically evaluate tweets, identify bias and framing, comprehend how digital platforms construct narratives, and perceive how hashtags create collective identity (Lilian & Pravina, 2026). However, utilizing critical visual pedagogy discourage the perpetuation of power disparities, supporting and cultivating critical thinking by analyzing viral Black Twitter images or memes, talking about representation, looking at how images expose unfair practices, and contrasting Black Twitter narratives with mainstream media (Javier et al., 2025). Moreover, black twitter allows educators to incorporate current black community experiences into the classroom through keeping with Paulo Freire's concepts of dialogue and liberation, educators may foster student reflection on identity and energy, utilize trending hashtags and tweets for conversations, and establish online discussion boards (Mark et al., 2022). In addition, ensure that digital learning environments stay democratic, effective use of online education necessitates respectful discussion guidelines, safeguarding disadvantaged voices, avoiding exploitation or superficiality, and promoting collaboration (Vera & Andreas, 2021).

Therefore, using black twitter in the classroom relates to critical pedagogy: students have access to real content, examine language, power, and media framing critically, consider racism, representation, advantage, and unfairness, participate in discussions to exchange viewpoints, and take action through media projects, awareness campaigns, or digital responses, all of which embody reflective praxis (Merian, 2026). Similarly, black twitter is important for online learning since it presents challenges. Thus, digital domination is frequently reflected in digital realms, however black twitter challenges these narratives and re-centers black viewpoints are an example of knowledge democracy (Tyler et al., 2025). Likewise, conventional curriculum frequently diminishes lived realities, disregards Black voices, and emphasizes whiteness. Besides, black twitter challenges the idea that academics produce information alone, highlights young people as knowledge makers, and incorporates current social issues into education.

Furthermore, black twitter's use in online learning fosters freedom of expression develops a dialogical rather than an autocratic approach when students openly discuss injustice, exchange viewpoints, and question authority (Chiara et al., 2023). Conversely, learning to challenge prevailing views, evaluate media platforms, resist off false information, and think for themselves, students acquire vital digital fluency. Tiera (2022) stated that black twitter transforms online learning into a place for strength rather than oppression by promoting community, solidarity, collective resistance, and counter-hegemonic knowledge. Lastly, students increase their democratic agency through digital cooperation, hashtag activism, and civic discourse.

*“The quality of online education is enhanced when students acquire higher-order thinking abilities, such as analyzing, evaluating, and producing) because they start to think critically and independently instead of just memorizing data. Social media groups like Black Twitter can facilitate this process in online learning environments by promoting dialogue, exchanging personal stories, and increasing knowledge of topics about freedom and liberty in education. Open communication and group knowledge exchange allow students to challenge concepts, voice their opinions, and interact with different points of view. As a result, online learning becomes more empowering and participative, fostering ideals of freedom, inclusivity, and intellectual independence while assisting students in developing critical thinking skills”.*

### *2.3 Critical Insights Into Digital Education in Pakistan: Addressing Challenges Through Humanization*

Essentially enabling students to "talk back" and appreciating various modes of knowledge, critical digital pedagogy fosters freedom and dignity. Integrating Black Twitter into online education improves culturally appropriate pedagogy, challenges deficient beliefs, promotes asset-based learning, developed critical thinking, and advances freedom and liberty because digital platforms may advance inequality. Then, Influenced by Paulo Freire, humanization in education aims to restore students' dignity and give them a voice, promote dialogue rather than

dominance, cultivate critical consciousness, value actual experiences, and support student agency. However, Emma and Tiffany (2025) specified, it is difficult to apply these ideas in digital and higher education contexts since these settings frequently restrict student engagement, communication, and opportunity to actively direct their education. Next, platforms on the internet are not neutral. They frequently marginalize African traditional systems of knowledge while reflecting the control of Global North epistemologies. Instead of upending colonial power structures, algorithmic biases and the industrialization of knowledge reinforce inequality. Consequently, it becomes challenging to create digital learning environments that are really human-centered (Jamshed et al, 2025).

However, persistence of traditional “Banking” Pedagogy: Freire's criticism of teacher-centered, passive paradigms is frequently reflected in education. The curriculum prioritizes knowledge acquisition above transformative learning, and teachers often rely on traditional lectures that leave pupils as passive recipients. Although, Debanjana and Ruparnab (2025) specified humanistic education demands discussion and active engagement, yet such change is challenging due to strongly rooted institutional procedures. More, the achievement gap: Due to curricula that prioritize whiteness, a shortage of diverse teachers, limited perceptions of minority students, and wider socioeconomic disparities, BAME/BIPOC students in the US and the UK continue to have achievement shortcomings. Institutions based on unfair systems impede efforts to humanize education, despite these injustices are brought to light by campaigns like Black Lives Matter, significant systemic change is still delayed (Henrika, 2020). Similarly, the written work highlights how platforms are dominated by multinational businesses, online monitoring significantly affects minority communities, and AI and automation frequently contain racial bias. These elements demonstrate how even technically neutral technologies may promote inequality, making it challenging to attain genuinely human-centered digital education (Xiaojiao et al., 2025).

There were few opportunities for critical reflection, many educators lacked the necessary training, and inclusion was frequently disregarded throughout the quick transition to online learning. Digital education faced the potential of sustaining current injustices rather than promoting empowerment and emancipation since technology was often embraced without ethical thought (Nonkanyiso & Patricia, 2025). Therefore, Katherine et al. (2022) identified humanistic education places a strong emphasis on the validation of various modes of information, but western knowledge is still prioritized in digital areas, which restricts the range of viewpoints. Considerably, power structures within Institutions: In the Middlebury situation, professors may be unwilling to work in collaborative models since educational units are frequently seen as vendors rather than cooperative partners. Moreover, Transformative transformation is further limited by institutional hierarchies, which make attempts to modify organizational culture and humanize digital learning difficult and time-consuming (Kumaran, 2023).

Education must go beyond a purely human-centered orientation, according to post-humanist and ecological viewpoints. Curricula that emphasize humans while neglecting our interconnectedness with the environment and technology that cause ecological harm through activities like resource extraction and mining are examples of current challenges. Furthermore, Albertina (2026) detailed significant philosophical change that acknowledges the interdependence of humans, nonhumans, and surroundings in order to promote a humanistic education appropriate for the Future. Finally, Superficial Attachment: Although inclusion is merely surface-level, humanization is undermined: when diversity is recognized but not empowered, when representation is graphical rather than structural, and when minority voices are welcomed but not given priority. A genuine transfer of power is necessary for true humanization, not merely insignificant moves (Simon et al., 2025).

*“Inspired by Paulo Freire, critical digital pedagogy aims to humanize education by encouraging dignity, discussions, and student voice. However, due to institutional power structures, biased technologies, the authority of Western educational systems, and traditional teacher-centered instruction, digital and higher education frequently perpetuate inequality. Despite calls for change from social movements like black lives matter, these problems limit the inclusion of Native and underprivileged viewpoints and lead to success discrepancies. Therefore, broader structural, technological, and philosophical changes that promote justice, different knowledge systems, and transformative learning are necessary for the effective humanization of digital education”. Finally, in recognition of digital education taught in Pakistan, truthful conversations, and promoting student voices, globalization may provide diverse discussions, participatory instruction, and chances for students to voice their opinions in virtual environments openly. Digital education may become more equal, engaging, and considerate to all aspects of students by putting these principles first”.*

### 3. Conclusions

This chapter emphasized the significance of critical digital pedagogy and humanization in making higher education more democratic, inclusive, and socially conscious. Although the argument focused on how education should encourage discussion, critical thinking, empathy, and student agency in order to go beyond teacher-centered and technology-driven methods. Therefore, the chapter illustrated how digital platforms like black twitter may empower underrepresented voices, promote critical consciousness, and enable participatory learning by drawing on Paulo Freire's theory and culturally relevant pedagogy. Lastly, the review also emphasized the importance of

using technology in an ethical and human-centered manner, particularly when dealing with challenges of digital exclusion, algorithmic prejudice, and inequality.

#### 4. Implications

Need for scalable frameworks required development of practical, evidence-based models linking digital literacy, social justice, and ecological responsibility. Training educators in critical digital pedagogy, inclusive practices, and ethical technology use. Institutional and policy-level changes to support equity, decolonized curricula, and culturally sustaining pedagogy. Critical engagement with AI and digital tools to minimize bias and promote justice-oriented learning. Promotion of democratic participation encouraging dialogue, civic engagement, and student agency in online education. Ecological integration embedding planetary awareness and more-than-human perspectives into digital pedagogy. Power redistribution moving beyond token inclusion toward meaningful participation and shared knowledge production.

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