The emergence of social media alongside the creation of the metaverse marks two pivotal technological evolutions of our era, significantly altering the manner in which individuals engage, communicate, and understand their environment and relationships. Social networking sites such as Facebook, Twitter, Instagram, and TikTok have transformed the landscape of human connection and information exchange. With a user base in the billions, these platforms enable an unprecedented level of worldwide interaction [1]. The incorporation of social media into everyday life has occurred swiftly and extensively, influencing various aspects of society, including the social, political, and economic domains. This transformation through social media has led to the development of the metaverse concept, a unified virtual space, forged by the blending of enhanced virtual physical realities, augmented reality (AR), and the Internet [2]. The metaverse is conceived as an all-encompassing virtual environment where individuals congregate for interaction, entertainment, professional activities, and education, offering experiences that surpass those available in the tangible world [3]. With the metaverse being an emerging technology, its long-term ramifications on mental health remain largely uncharted. Nevertheless, its capability for immersive engagement and enhanced social connections demands careful examination to discern both its positive and negative implications for mental health [4].

Hence, the advent of social media and the metaverse signifies a significant transformation in the modes of human communication and interaction, rendering the investigation of their effects on mental health both pertinent and pressing. Standing at the threshold of this digital evolution, it is crucial to undertake exhaustive research to inform the development of these technologies in a manner that bolsters mental health [5].

The psychological influence of social media is dual-natured, capable of engendering both positive and negative effects on mental health. The advantages of community support and personal expression are balanced against the risks of anxiety, depression, and harmful social comparisons [6]. As social media further entrenches itself in our daily routines, grasping these effects is essential for devising methods to minimize adverse outcomes while maximizing the platforms’ beneficial potential [7].

The metaverse presents new modes of interaction, work, and play within a digitally crafted environment. As this digital domain continues to grow, its influence on mental health, for better or worse, emerges as a crucial concern for researchers, healthcare professionals, and technology creators [8].

The metaverse presents significant opportunities for therapeutic applications, especially in the realm of mental health care and support. Virtual reality therapy, an early form of metaverse technology, has already demonstrated effectiveness in addressing conditions, such as PTSD, anxiety disorders, and phobias [9]. The metaverse’s immersive environments enable individuals to safely confront fears, practice social skills, or participate in mindfulness activities within a controlled, virtual context. Additionally, the metaverse offers improved access to mental health resources and support networks for those who...
Adolescents may encounter barriers in the physical world, such as individuals living in remote locations or those with mobility issues [10].

The metaverse’s social dimension also provides unparalleled opportunities for increasing connectivity and building communities among users. Within the metaverse, users can connect with a global community, engage in collective activities, and form groups based on shared interests or experiences. This enhanced level of social engagement can be particularly valuable for those feeling isolated or unable to connect with similar individuals in their physical surroundings [11].

Despite its potential, the metaverse raises several mental health concerns. A significant issue is the possibility of using the metaverse for escapism. While escaping into the metaverse can be momentarily therapeutic, excessive reliance on it may encourage avoidance behaviors, leading individuals to neglect real-world problems or relationships in favor of virtual interactions [12]. This tendency towards virtual preference could exacerbate feelings of isolation and detachment from reality if not carefully managed [13].

Cyberbullying and harassment within the metaverse represent further mental health risks [14]. The anonymity and physical detachment of virtual interactions might embolden harmful behaviors with diminished fear of consequences. Victims of cyberbullying in the metaverse could suffer considerable emotional distress, potentially without adequate support mechanisms due to the nascent and unregulated nature of these virtual spaces [15].

Additionally, the blending of virtual and real experiences in the metaverse prompts concerns about its long-term psychological impacts [16]. Individuals might struggle to differentiate between virtual and real-life experiences, affecting their sense of identity, perception of reality, and interpersonal relationships [17]. The metaverse’s intense and potentially addictive experiences highlight the necessity for continued research to comprehend and alleviate these risks [18].

In summary, while the metaverse offers innovative possibilities for social connection and therapeutic intervention, it also introduces novel mental health challenges [19]. Striking a balance between its advantages and dangers will necessitate thoughtful guidelines and interventions to ensure that users can engage with the metaverse in ways that bolster rather than undermine their mental well-being [20]. As this digital environment evolves, so will our understanding of its effects on mental health, demanding flexible and forward-thinking strategies to maximize its benefits and minimize its drawbacks [21].

The transition into the digital age has led to the emergence of groundbreaking platforms for social interaction, including social media and the metaverse. While these digital domains share similarities in their capacity to connect users beyond physical limitations, their impacts on mental health reveal both striking contrasts and fascinating parallels [22]. Additionally, the introduction of virtual reality (VR) technology, particularly within the metaverse, adds a distinct layer to how digital experiences can shape psychological health [23].

In terms of impact differences, the primary distinction between social media and the metaverse is their immersion and interaction levels. Social media platforms typically operate through two-dimensional interfaces, facilitating user interaction via text, images, and videos [24]. This interaction level, while impactful, does not immerse users in an alternative reality. Conversely, the metaverse, fueled by VR and AR technologies, offers a three-dimensional, interactive environment where users can actively participate and influence their surroundings in real time [25]. This immersive experience carries unique implications for mental health that extend beyond the capabilities of traditional social media [26].

A key concern with the metaverse, compared to social media, is its potential to deepen escapism tendencies [27]. The metaverse’s immersive qualities provide an attractive refuge from real life, potentially leading to excessive time spent within virtual worlds. While social media also poses risks of overuse and escapism, the three-dimensional, participatory nature of the metaverse may amplify these issues, heightening the risk of social isolation and disconnection from the physical world.
Despite their differences, social media and the metaverse share common ground in their impact on mental health. Both platforms can nurture a sense of community and belongingness, connecting users with shared interests and offering arenas for self-expression and identity exploration. Nevertheless, they also harbor risks related to cyberbullying, social comparison, and the compulsion to maintain an idealized online persona, all of which can contribute to anxiety, depression, and diminished self-esteem.

VR technology is pivotal in the metaverse, delivering immersive experiences with both therapeutic and harmful potential for mental health. Positively, VR can be utilized for applications like exposure therapy for phobias or PTSD by crafting controlled, therapeutic settings unattainable in the real world. Conversely, the intensity of VR experiences can heighten negative facets, such as escapism or the impact of virtual harassment, rendering these encounters more vivid and potentially more distressing than on traditional social media platforms.

In essence, while social media and the metaverse share the ability to affect mental health through connectivity and interaction, the immersive quality of the metaverse, propelled by VR technology, adds new layers to these impacts. Recognizing these parallels and distinctions is key for formulating approaches to amplify the positive facets of these technologies while curbing their potential detriments to mental well-being.

The scrutiny into the psychological repercussions of social media and the metaverse, especially via the lens of virtual reality (VR) technology, reveals significant theoretical and practical ramifications. These insights enrich our comprehension of the effects of digital environments on mental health and guide users, developers, and policymakers in navigating these impacts with responsibility. The link between digital platform engagement and mental health outcomes highlights the urgency to adapt existing psychological theories to encapsulate the complexities of contemporary digital interactions. For example, the Social Comparison Theory, which suggests individuals gauge their social and personal value by comparing themselves to others, assumes new layers within the realms of social media and the metaverse. The immersive and interactive nature of these platforms could intensify social comparison effects, indicating the need for revised theoretical frameworks that consider the profundity of virtual experiences and their psychological impacts.

Moreover, the notion of presence in VR—experiencing a sense of true “being” within a virtual environment—challenges established views in environmental psychology. The immersive attribute of the metaverse blurs the demarcation between physical and virtual realms, potentially reshaping users’ perceptions of reality and self-identity. These theoretical considerations necessitate an expanded conceptual schema integrating the subtleties of digital and virtual experiences with psychological outcomes.

For users, recognizing and educating about the potential mental health risks tied to digital platform use is essential. Users are encouraged to adopt digital mindfulness, identifying signs of overuse or emotional distress and managing their online behaviors proactively. Techniques like imposing time restrictions, participating in digital detoxes, and fostering offline connections can alleviate adverse effects. Developers bear the responsibility not just for creating engaging experiences but also for ensuring users’ mental well-being. Implementing design elements that encourage positive interactions and diminish harmful content or behaviors is vital. Features such as usage reminders, content filters, and harassment reporting tools can render digital spaces safer and more supportive. Collaborating with mental health experts to embed therapeutic resources and tools directly into platforms, particularly within the metaverse, can bolster users’ psychological health.

Policymakers face the challenge of developing regulatory frameworks that protect users from potential harm without hindering innovation. Policies might encompass age restrictions, privacy safeguards, and content moderation standards. Initiatives promoting digital literacy are crucial, empowering individuals to navigate online spaces safely and responsibly. Working in tandem with tech firms, mental health bodies, and academia can lead to evidence-based policymaking, ensuring that regulations are rooted in the latest research insights.
In sum, the theoretical and practical implications stemming from the interplay between digital platform use and mental health underline the necessity for a multidisciplinary approach to tackle these issues. By melding insights from psychology, technology development, and policymaking, stakeholders can collectively exploit the advantages of social media and the metaverse while protecting users' mental well-being.

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