INTERNATIONAL JOURNAL FOR INNOVATIVE RESEARCH IN MULTIDISCIPLINARY FIELD
ISSN(O): 2455-0620 [Impact Factor: 9.47]
Monthly, Peer-Reviewed, Refereed, Indexed Journal with IC Value : 86.87
Volume - 11, Issue - 09, September - 2025

DOIs:10.2015/IJIRMF/202509019 --:-- Research Paper / Article / Review

Perceiving Digital Marginality in India: A Socio-Legal Critique of Access, Exclusion and Inequality in the Digital Age

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Abstract: *This research study critically examines the concept of digital marginality in India, shedding light on the profound socio-legal implications of unequal access to digital technologies and the resultant disparities in opportunities, resources, and information. By exploring the intricate intersections of digital exclusion as found in Indian society, with existing social and economic inequalities, this research study underscores the urgent need for a comprehensive and multifaceted approach to address digital marginality. The analysis reveals that digital marginality is not merely a technological issue but a complex phenomenon deeply embedded in Indian societal structures, perpetuating existing power dynamics and inequalities. This research study highlights the critical role of Indian policy frameworks, institutional mechanisms, and community engagement in shaping digital inclusion. It also emphasizes the need for context-specific solutions that account for the diverse experiences and challenges faced by marginalized groups. By adopting a socio-legal perspective, this research study provides a nuanced understanding of the structural barriers that hinder digital inclusion and offers insights into designing effective interventions to promote equitable access to digital technologies and mitigate the adverse effects of digital marginality in India. The findings have significant implications for policymakers, practitioners, and researchers seeking to bridge the digital divide and foster inclusive digital ecosystems.*

Key Words: *Digital Age, Digital Marginality, Digital Exclusion, Digital Divide, Digital Inclusion, Digital Literacy.*

1. INTRODUCTION:

Digital marginality refers to the exclusion or limited participation of individuals, groups, or communities from the benefits of digital technologies, resulting in unequal access to information, opportunities, and resources. It limits access to information, making it difficult for individuals and communities to make informed decisions about their lives, health, education, and economic opportunities. Digital marginality also restricts access to economic opportunities, such as online employment, e-commerce, and digital entrepreneurship, perpetuating poverty and inequality. Furthermore, it hinders access to quality education and skills development, exacerbates health disparities, and limits opportunities for social participation and civic engagement. Ultimately, digital marginality can perpetuate economic inequality, social exclusion, and limited access to government services, making it essential to address this issue to promote digital inclusion and reduce disparities. This exclusion can manifest in several forms, including:

- **Digital Divide:** The gap between those who have access to digital technologies, such as computers and the internet, and those who do not. This divide can be based on factors like socioeconomic status, geography, age, and ability.
- **Techno-Inequality:** The unequal distribution of digital technologies and their benefits, resulting in some individuals or groups being left behind or marginalized. This can manifest in differences in access to quality internet, digital literacy, and opportunities for online participation.
- **Data Poverty:** A state of limited access to digital data, information, and services, which can exacerbate existing social and economic inequalities. Data poverty can result from a lack of access to affordable internet, digital literacy, and relevant online content.

Digital marginality in India refers to the exclusion or limited participation of individuals, groups, or communities from the benefits of digital technologies, resulting in unequal access to information, opportunities, and resources. This concept

is particularly relevant in the Indian context due to the country's vast socio-economic disparities, rural-urban divide, and existing inequalities. The urban-rural divide is a significant challenge, with rural areas facing limited access to digital technologies. Socio-economic inequalities also play a crucial role, with a large proportion of the population lacking access to digital technologies, particularly in rural areas. Women in India face greater restrictions in accessing technology, and lower castes and tribal communities often face systemic exclusion from digital resources, perpetuating their marginalization. This digital marginality has severe consequences, including educational inequalities, economic exclusion, and healthcare disparities, ultimately reinforcing poverty cycles and limiting economic mobility. Addressing digital marginality requires inclusive policy making, digital literacy programs, and affordable internet and devices to promote digital inclusion and reduce disparities. By bridging this gap, India can promote inclusive growth and ensure that the benefits of digital technologies are equitably distributed.

Studying digital exclusion in the Indian context is crucial due to the country's diverse socio-economic landscape and rapid digitalization. Understanding digital exclusion helps identify marginalized communities, such as rural populations, women, and lower castes, who lack access to digital technologies and skills. This knowledge enables policymakers to design targeted interventions, promoting inclusive growth and equitable access to digital opportunities. Digital exclusion can have far-reaching consequences, including limited access to essential services, educational opportunities, and economic prospects. By studying digital exclusion, policymakers can gain insights into the root causes of these disparities and develop strategies to address them. Moreover, studying digital exclusion can help identify best practices and successful interventions that can be scaled up to promote digital inclusion. This can include initiatives such as digital literacy programs, public access points, and affordable digital services.

Furthermore, understanding digital exclusion can also inform policies aimed at promoting digital entrepreneurship, innovation, and economic growth. By ensuring that all segments of society have access to digital opportunities, India can unlock its full potential and achieve more inclusive and sustainable development. Overall, studying digital exclusion is essential for promoting digital inclusion, reducing socio-economic disparities, and ensuring that the benefits of digitalization are equitably distributed across Indian society.

2. OBJECTIVES:

This chapter aims to provide a comprehensive analysis of digital exclusion in India, delving into the complexities of this issue. It will critically examine the following aspects:

- Who is excluded: The chapter will identify the marginalized groups that are left out of the digital landscape, including rural communities, women, lower castes, and other vulnerable populations. It will explore the reasons behind their exclusion, including socio-economic factors, lack of digital literacy, and limited access to digital infrastructure.
- How exclusion occurs: The chapter will analyze the various factors that contribute to digital exclusion, including policy frameworks, infrastructure, and access to digital technologies. It will examine how these factors intersect and exacerbate existing social and economic inequalities.
- Why exclusion matters: The chapter will discuss the far-reaching consequences of digital exclusion, including limited access to essential services, education, and economic opportunities. It will highlight how digital exclusion can perpetuate existing inequalities and hinder social and economic development.

Through this analysis, the chapter will evaluate the existing policy and legal framework related to digital inclusion in India, identifying gaps and limitations that perpetuate digital exclusion. It will also examine the role of various stakeholders, including government, civil society, and private sector, in promoting digital inclusion. Ultimately, the chapter aims to provide actionable insights and recommendations to promote more inclusive policies and programs that ensure equal access to digital opportunities for all segments of society. By doing so, it hopes to contribute to a more equitable and digitally inclusive society, where everyone has the opportunity to thrive in the digital age.

3. INTERWEAVING LEGAL FRAMEWORKS, SOCIAL THEORY, AND EMPIRICAL EXAMPLES:

provides a comprehensive understanding of complex issues that are continuously creeping up while analyzing digital exclusion and marginality. Analyzing *legal frameworks* that shape digital access and rights is crucial for understanding the regulatory environment surrounding digital technologies. This involves examining laws and policies related to digital infrastructure, data protection, online freedom of expression, and access to digital services. By understanding the legal frameworks, researchers and policymakers can identify gaps and challenges that contribute to technosocial marginality and develop targeted interventions to address these issues. Applying *sociological theories* to understand power dynamics and social structures provides valuable insights into the complex relationships between technology, society, and power. Social theories such as intersectionality, critical race theory, and feminist theory can help researchers understand how different forms of marginalization intersect and impact individuals and communities.

By applying these theories, researchers can develop a nuanced understanding of the ways in which digital technologies can perpetuate or challenge existing social inequalities. Examining *empirical examples* to illustrate real-world implications is essential for grounding theoretical discussions in practical realities. Empirical examples can include case studies of specific communities or initiatives, statistical analyses of digital access and use, or ethnographic research on digital practices. By examining empirical examples, researchers and policymakers can develop a deeper understanding of the complex issues surrounding technosocial marginality and identify effective strategies for promoting digital inclusion and addressing social inequalities.

4. DEVELOPING THE CONCEPTUAL FRAMEWORK:

The **Digital Divide Theory** is a conceptual framework that explains the disparities and inequalities in access to, use of, and benefits from digital technologies. It posits that the divide is not just about physical access to technology, but also about the skills, knowledge, and abilities required to effectively utilize digital tools and resources. The key components of the digital divide include:

- **Access** refers to the physical availability of digital technologies, including devices such as computers, smartphones, and tablets, as well as internet connectivity. This encompasses not only the presence of digital infrastructure but also its quality, reliability, and affordability. Without adequate access, individuals and communities are excluded from the benefits of digital technologies.
- **Use** focuses on the effective utilization of digital technologies, which requires digital literacy and skills. This includes the ability to navigate online platforms, utilize digital tools, and engage in various online activities such as communication, education, and commerce. Effective use of digital technologies enables individuals to leverage their potential and achieve their goals.
- **Benefits** are the outcomes and advantages derived from digital technology use. These can be social, economic, or cultural in nature. Social benefits include enhanced connectivity and community engagement, while economic benefits encompass improved employability, access to digital markets, and increased productivity. Cultural benefits include access to diverse perspectives, knowledge, and creative content, all of which can significantly impact individuals' and communities' quality of life and opportunities for advancement.

The digital divide can be examined through various theoretical perspectives. The *structural perspective* investigates how social structures, such as socioeconomic status and geography, influence digital access and use, revealing how factors like income, education, and location can impact an individual's ability to leverage digital technologies. The *cultural perspective* explores how cultural factors, including values and norms, shape digital technology adoption and use, highlighting the role of cultural identity and community in shaping digital practices. Meanwhile, the *critical perspective* emphasizes the power dynamics and social inequalities that underlie the digital divide, exposing how issues like marginalization, oppression, and unequal distribution of resources can perpetuate digital exclusion and disadvantage certain groups. The digital divide has far-reaching implications that affect various aspects of society. One of the most significant consequences is the exacerbation of existing social inequalities. By limiting access to digital technologies, marginalized groups, such as low-income communities, people with disabilities, and rural populations, are further disadvantaged. This digital exclusion can limit their opportunities for education, employment, and social mobility, perpetuating cycles of poverty and inequality. The digital divide can also hinder economic development by leaving behind those without access to digital technologies. In today's digital economy, online platforms and digital tools are increasingly essential for businesses, innovation, and entrepreneurship. Without access to these resources, individuals and communities may struggle to participate in the digital economy, missing out on opportunities for economic growth and development. Addressing the digital divide is essential for promoting social justice and ensuring equal opportunities for all. By bridging the gap, individuals and communities can access information, education, and economic resources that can improve their socio-economic status. This, in turn, can contribute to a more equitable and inclusive society, where everyone has the opportunity to thrive and reach their full potential. Ultimately, addressing the digital divide is crucial for creating a fair and just society that leverages the benefits of digital technologies for all.

5. TECHNOSOCIAL MARGINALITY:

refers to the intersection of technology and social factors that perpetuate marginalization and exclusion. It highlights how certain groups, often already disadvantaged, face barriers in accessing and utilizing digital technologies, further exacerbating existing social inequalities. The key aspects include:

- Technosocial marginality is shaped by **intersectionality,** which refers to the complex interplay of various social factors such as caste, class, gender, geography, and more. These intersecting factors can compound and exacerbate marginalization, making it even more challenging for individuals and groups to access digital resources and opportunities. For instance, a woman from a lower socioeconomic background living in a

rural area may face multiple barriers to digital access, including limited infrastructure, lack of digital literacy, and societal norms that restrict her mobility and autonomy.

- The **Digital Divide** is a critical aspect of technosocial marginality, referring to the gap between those with access to digital technologies and those without. This divide can perpetuate marginalization by limiting access to information, education, employment, and other opportunities that are increasingly available online. The digital divide is not just about access to devices or internet connectivity but also about the skills and knowledge needed to effectively utilize digital technologies. Those who are left behind in the digital divide can face significant disadvantages in terms of social mobility, economic opportunities, and civic engagement.
- **Power dynamics** play a significant role in shaping technosocial marginality, with dominant groups often controlling access to digital resources and opportunities. This can perpetuate existing social inequalities, as those with power and influence can dictate who has access to digital technologies and who does not. Power imbalances can also affect the design and deployment of digital technologies, with solutions often being tailored to the needs and interests of dominant groups rather than marginalized communities.

Addressing these issues requires a nuanced understanding of the complex intersections between technology, society, and power dynamics. This involves recognizing how social, economic, and cultural factors intersect with technological advancements to produce and reproduce inequalities.

Intersectionality in Digital Marginalization highlights how multiple identities, such as race, gender, class, sexuality, disability, and more, intersect and interact in digital spaces. This intersection can lead to unique experiences of marginalization, exclusion, and oppression. The key issues include:

- **Compounding marginalization** occurs when multiple identities intersect and exacerbate experiences of marginalization, making it more challenging for individuals to access digital resources and opportunities. For instance, a person with a disability from a low-income background may face significant barriers to digital access due to the compounding effects of their socioeconomic status and disability. This intersectionality can result in limited access to assistive technologies, digital literacy programs, and online services, further entrenching existing social inequalities.
- Digital marginalization is shaped by **contextual factors**, including social, cultural, and economic contexts, which can influence how identities intersect and impact digital experiences. For example, cultural norms and values can affect how individuals from diverse backgrounds engage with digital technologies, while economic contexts can determine access to digital infrastructure and services. Understanding these contextual factors is crucial for developing effective strategies to promote digital inclusion and equity. By considering the complex interplay of contextual factors, policymakers and practitioners can design interventions that address the unique needs and experiences of diverse populations.
- **Power dynamics** play a significant role in digital marginalization, with dominant groups often controlling access to digital resources, opportunities, and platforms. This can result in the marginalization of already vulnerable populations, who may be excluded from decision-making processes and denied access to digital technologies. For instance, algorithms used in digital platforms can perpetuate existing biases and power imbalances, further entrenching social inequalities.

Understanding intersectionality in digital marginalization is crucial for developing effective strategies to promote digital inclusion and equity. This requires considering the complex interplay of multiple identities and how they intersect in digital spaces.

5.1 Understanding Digital Marginality in India

Digital marginality in India is a complex issue that encompasses various dimensions, including access, affordability, digital literacy, and online participation. These dimensions are interconnected and can exacerbate existing social and economic inequalities.

Access to digital technologies, such as computers, smartphones, and internet connectivity, is a fundamental aspect of digital inclusion. However, many individuals in India, particularly in rural areas, lack access to these technologies, limiting their ability to participate in the digital economy. The lack of access can be attributed to various factors, including limited infrastructure, geographical constraints, and socioeconomic disparities. For instance, rural areas often have limited internet connectivity, making it difficult for residents to access online services and information. Furthermore, the availability of digital devices, such as computers and smartphones, is often limited in these areas, further exacerbating the issue.

Affordability of digital technologies and internet services is another critical dimension of digital marginality. High costs can make it difficult for low-income households to access and utilize digital technologies, perpetuating existing economic

inequalities. The cost of digital devices, internet plans, and data can be prohibitively expensive for many individuals, particularly those living in poverty or in low-income households. Additionally, the cost of digital literacy training and other related services can also be a barrier to access. As a result, many individuals are forced to rely on limited or expensive internet options, further marginalizing them in the digital landscape.

Digital Literacy is essential for individuals to effectively use digital technologies and navigate online platforms. However, many people in India lack the necessary skills, including basic computer skills, online safety, and critical thinking. Digital literacy is not just about having the technical skills to use digital devices, but also about having the knowledge and understanding to use them effectively and safely. Limited digital literacy can make individuals vulnerable to online threats, such as cyberbullying, phishing, and identity theft. Furthermore, it can also limit their ability to access essential services, information, and economic opportunities, further exacerbating existing social and economic inequalities.

Online Participation encompasses various activities, such as accessing information, using online services, and engaging in online communities. Limited online participation can restrict individuals' ability to access essential services, information, and economic opportunities. Online participation is not just about accessing information, but also about being able to contribute to online discussions, create digital content, and engage with others. Limited online participation can perpetuate existing power dynamics, limiting the ability of marginalized groups to express themselves and access opportunities. Furthermore, it can also limit the ability of individuals to hold institutions and governments accountable, further exacerbating existing social and economic inequalities.

The dimensions of digital marginality are interconnected, and addressing one dimension can have a positive impact on others. For example, improving access to digital technologies can enhance digital literacy and online participation. Similarly, increasing affordability can expand access to digital technologies and internet services. Understanding these interconnections is crucial for developing effective strategies to address digital marginality. By addressing the various dimensions of digital marginality, India can promote inclusive growth, reduce inequality, and ensure that all citizens can benefit from the opportunities presented by digital technologies. Addressing digital marginality in India requires a comprehensive approach that addresses the various dimensions of digital inclusion. This can involve initiatives such as expanding access to digital technologies, promoting digital literacy, and making internet services more affordable. Additionally, efforts to promote online participation, such as creating digital content in local languages and promoting online safety, can also help to address digital marginality.

5.2 Digital Access and Inclusion in India

The Legal Framework

Analyzing the relevant laws, policies, and regulations that shape digital inclusion in India, helps the researchers and policy makers to identify areas of strength and weakness. The study will examine the following legal frameworks that govern digital access and inclusion in India:

The **Information Technology Act, 2000** provides a comprehensive legal framework for electronic governance, e-commerce, and digital signatures in India. It covers various aspects such as electronic contracts, digital signatures, cybercrime, cybersecurity, data protection, and privacy. This Act plays a crucial role in facilitating India's digital economy and ensuring the security of digital transactions.

The **Right to Information Act, 2005** empowers citizens to access information from public authorities, promoting transparency and accountability in governance. This Act enables citizens to request information, access government decisions, and hold public authorities accountable. By providing citizens with the right to information, this Act promotes good governance and citizen engagement.

Introduced in 2009, **Guidelines for Indian Government Websites (GIGW),** promote accessible digital practices in government entities, incorporating features like text readability and keyboard accessibility

The **Digital India Initiative** aims to transform India into a digitally empowered society and knowledge economy. It encompasses various components, including digital infrastructure development, digital governance, digital literacy, and e-services. This initiative seeks to promote digital inclusion, economic growth, and citizen engagement, ultimately bridging the digital divide and fostering a vibrant digital economy.

The **Rights of Persons with Disabilities (RPWD) Act, 2016** ensures equal access to information and communication technology for persons with disabilities, mandating reasonable accommodations and accessible digital platforms.

The **National Digital Communications Policy, 2018** promotes digital communications infrastructure and digital literacy, ensuring affordable and inclusive access to digital services. Its objectives include universal broadband access, digital skills development, and innovation in the digital economy. This policy aims to bridge the digital divide and foster a vibrant digital economy, enabling citizens to access digital services and opportunities.

The **Telecom Regulatory Authority of India (TRAI)** regulations govern various aspects of digital communications, including tariffs, quality of service, consumer protection, and net neutrality. TRAI ensures that consumer interests are protected and digital communications services are delivered efficiently. By regulating digital communications, TRAI promotes a fair and competitive digital market, ultimately benefiting citizens and the economy.
The **Personal Data Protection Bill** proposed legislation aims to empower individuals with control over their personal data, promoting transparency, accountability, and consent.
On April 2025, the **Supreme Court of India** recently made a landmark judgment declaring digital access a fundamental right under Article 21 of the Indian Constitution, particularly for persons with disabilities. This ruling emphasizes the importance of accessible digital platforms and services, ensuring equal participation in the digital world. The judgment empowers persons with disabilities to independently access essential services like banking, healthcare, and education, bridging the digital divide and holding both government and private entities accountable for creating inclusive digital ecosystems.

5.3 Government of India's Programs and Policies

The Indian government has implemented several initiatives to ensure digital inclusion, primarily through the Digital India program, a flagship initiative that aims to transform India into a digitally empowered society and knowledge economy. The government is expanding digital infrastructure across the country, including broadband highways and universal access to mobile connectivity. This initiative seeks to bridge the digital divide by ensuring network coverage in underserved areas, particularly in rural India. The National Optical Fibre Network (BharatNet) is a key component of this effort, aiming to provide high-speed internet connectivity to numerous gram panchayats. By establishing a robust digital infrastructure, the government aims to facilitate seamless access to digital services and promote economic growth. The government has also launched several digital services to promote digital inclusion.
The Unified Mobile Application for New-age Governance (UMANG) app, for instance, is a unified mobile application that provides access to over 1,700 government services. This app enables citizens to access essential services, such as healthcare, education, and public utilities, with ease and convenience. Another initiative is the DigiLocker, a cloud-based platform that allows citizens to store and access important documents digitally. The Bharat Interface for Money (BHIM) app, based on the Unified Payments Interface (UPI), facilitates seamless digital payments, promoting a cashless economy and reducing transaction costs.
Digital literacy and skills development are crucial components of the Digital India initiative. The Pradhan Mantri Gramin Digital Saksharta Abhiyan (PMGDISHA) aims to make six crore rural households digitally literate, enabling them to access digital services and participate in the digital economy. The Future Skills Prime program focuses on re-skilling and up-skilling IT professionals to meet the evolving demands of the digital economy. Additionally, the Information Security and Education Awareness (ISEA) initiative trains individuals in information security, promoting a safe and secure digital environment.
Other notable initiatives include Aadhaar, a biometric-based digital identity system that provides secure authentication and facilitates direct benefit transfers. The MyGov portal encourages citizen participation in policymaking and governance, promoting transparency and accountability. The Direct Benefit Transfer (DBT) scheme transfers financial aid directly into beneficiaries' bank accounts, eliminating middlemen and enhancing transparency. These initiatives collectively aim to promote digital inclusion, improve governance, and foster economic growth by bridging the digital divide and ensuring access to digital services for all citizens.

5.4 Digital Marginality and Exclusion

The Social-Economic Factors

Digital marginality in India is a complex issue that affects various segments of the population, particularly those who are already disadvantaged due to socio-economic disparities, rural-urban divides, and lack of digital infrastructure. These factors contribute to the exclusion of certain groups from the benefits of digital technologies, perpetuating existing inequalities.
Socio-Economic Disparities play a significant role in digital marginality. Individuals from lower-income backgrounds, marginalized communities, and those with limited education often lack access to digital technologies and the skills to use them effectively. These disparities can be attributed to various factors, including limited financial resources, lack of access to quality education, and social exclusion. As a result, these individuals are often unable to benefit from digital opportunities, further exacerbating existing inequalities.
Rural-Urban Divide is another critical factor contributing to digital marginality. Rural areas often lack access to reliable internet connectivity, digital infrastructure, and other essential services, making it difficult for residents to participate in the digital economy. In contrast, urban areas tend to have better infrastructure, greater access to digital technologies, and

more opportunities for digital literacy and online participation. This divide perpetuates existing inequalities and limits opportunities for rural residents.

Lack of Digital Infrastructure is a significant barrier to digital inclusion. This includes limited access to internet connectivity, digital devices, and other essential technologies. In many parts of India, particularly rural areas, digital infrastructure is underdeveloped, making it difficult for residents to access online services, information, and economic opportunities. The lack of digital infrastructure can be attributed to various factors, including limited investment, geographical constraints, and inadequate policy frameworks.

The factors contributing to digital marginality are interconnected and can exacerbate existing inequalities. For example, socio-economic disparities can limit access to digital technologies, which can further exacerbate the rural-urban divide. Similarly, the lack of digital infrastructure can limit opportunities for digital literacy and online participation, perpetuating existing inequalities. Understanding the interplay of these factors is crucial for developing effective strategies to address digital marginality. Addressing digital marginality in India requires a comprehensive approach that addresses the various factors contributing to it. This can involve initiatives such as investing in digital infrastructure, promoting digital literacy, and addressing socio-economic disparities. Additionally, efforts to bridge the rural-urban divide, such as expanding internet connectivity and digital services to rural areas, can also help to promote digital inclusion. By addressing digital marginality, India can promote inclusive growth, reduce inequality, and ensure that all citizens can benefit from the opportunities presented by digital technologies.

5.5 Impact of Digital marginality on Various Sections of India

Digital Marginality has a profound impact on various sections of society, including women, rural populations, and marginalized communities.

For *women*, digital marginality restricts access to education and economic opportunities, limiting their ability to acquire new skills and knowledge. This can exacerbate existing gender inequalities and social isolation, particularly in rural areas where women face restrictions on their mobility and access to digital technologies. The lack of access to digital technologies and internet connectivity also hinders women's access to healthcare information, online services, and telemedicine, compromising their health and well-being. However, initiatives promoting digital literacy among women can empower them to access information, economic opportunities, and social services, bridging the gender digital divide. Patriarchal surveillance can also limit women's ability to use digital technologies safely and autonomously. Women may face restrictions on their digital activities, and their online presence may be monitored and controlled by family members or partners. This can perpetuate existing power dynamics and limit women's ability to access information, education, and economic opportunities.

Rural populations in India face significant challenges due to digital marginality, which restricts their access to information, services, and opportunities. The lack of digital infrastructure and internet connectivity in rural areas limits their ability to access online services. For instance, healthcare services such as telemedicine, online consultations, and access to health information are often unavailable, making healthcare less accessible to rural communities. The absence of digital infrastructure also affects education, as online learning resources, digital classrooms, and educational platforms are inaccessible, hindering educational opportunities for rural students. Furthermore, accessing government schemes, benefits, and services becomes difficult, leading to exclusion from government initiatives that could potentially improve their socio-economic conditions. The limited access to digital markets, e-commerce, and online job platforms also restricts economic growth and development in rural areas. This digital marginality perpetuates existing socio-economic disparities, exacerbating inequalities between rural and urban areas.

While *urban populations* in India generally have better access to digital infrastructure compared to rural areas, they still face challenges related to digital marginality. Urban digital marginality manifests in various forms, such as limited access to affordable internet services, digital literacy gaps, and exclusion from emerging technologies. Slum dwellers, migrant workers, and low-income urban residents often experience higher levels of digital marginalization due to economic constraints and lack of access to digital skills training. Additionally, issues like data privacy concerns, cybersecurity threats, and the digital divide within urban areas further exacerbate the challenges faced by urban populations in leveraging digital technologies for socio-economic empowerment and inclusion. Efforts to address urban digital marginality require targeted interventions, including affordable internet access initiatives, digital literacy programs, and policies promoting inclusive urban development through technology.

Caste and community-based exclusion is a significant issue in India, where certain groups, particularly Scheduled Castes (SCs) and Scheduled Tribes (STs), face limited access to digital technologies. These communities often lack the necessary skills to effectively use digital technologies, limiting their ability to access essential services, information, and economic opportunities. The digital divide in these communities is exacerbated by socio-economic factors, such as poverty, lack of education, and social exclusion. The digital divide has a profound impact on marginalized communities,

limiting their access to government services, including online benefits, subsidies, and welfare programs. This limitation can lead to economic disadvantages, including limited access to online job markets, e-commerce, and digital entrepreneurship. Furthermore, the digital divide perpetuates social exclusion, limiting the ability of marginalized communities to participate in the digital economy and access information.

Digital access is a significant challenge for *people with disabilities* in India. Many apps, websites, and education portals lack accessibility features, making it difficult for individuals with disabilities to navigate and utilize digital services. This limitation can exacerbate existing social and economic inequalities, limiting opportunities for people with disabilities to participate in the digital economy. Inaccessible digital platforms can limit people with disabilities' access to information, education, and economic opportunities, perpetuating social exclusion and economic disadvantages. The lack of digital accessibility has a profound impact on people with disabilities. Inaccessible apps and websites limit their ability to access essential services, education, and economic opportunities. This can lead to social exclusion, making it challenging for people with disabilities to participate fully in society. Furthermore, the digital divide can limit people with disabilities' ability to acquire digital skills, further exacerbating the issue.

Individuals belonging to *multiple marginalized groups*, such as women from lower castes or persons with disabilities from rural areas, face compound forms of digital marginalization, experiencing multiple layers of exclusion and disadvantage that exacerbate existing inequalities. For instance, Dalit women face intersectional marginalization due to their caste, gender, and economic status, limiting their access to digital technologies and opportunities. Similarly, rural women with disabilities encounter multiple barriers, including lack of digital infrastructure, social restrictions, and inaccessible digital platforms, while low-income individuals with disabilities face financial barriers and limited access to digital literacy programs. This deepens exclusion, limits access to information, healthcare, education, and economic opportunities, and increases vulnerability to online harassment and exploitation, further perpetuating social and economic disparities.

Addressing digital marginality requires a multi-faceted approach that includes developing digital infrastructure, promoting digital literacy, and designing inclusive and accessible digital services. Policy support is also crucial in promoting digital inclusion, addressing socio-cultural norms, and protecting the rights and interests of women and marginalized communities. By addressing digital marginality, India can promote inclusive growth, reduce inequality, and ensure that all citizens can benefit from the opportunities presented by digital technologies.

5.6 Towards A Future

Promoting digital inclusion is crucial for reducing marginality and ensuring that all individuals have equal opportunities to benefit from digital technologies. Several strategies can be employed to promote digital inclusion, including digital literacy programs, public access points, and affordable internet services. Digital literacy programs can empower individuals with the skills and knowledge necessary to effectively use digital technologies, while public access points, such as community centres and libraries, can provide access to digital resources for those who may not have them at home. Affordable internet services are also essential for ensuring that digital technologies are accessible to all.

Technology plays a vital role in promoting inclusive growth by providing access to essential services and opportunities. E-governance initiatives can improve access to government services, reducing bureaucratic barriers and enhancing transparency. Online education platforms can expand access to quality education, bridging geographical and socioeconomic gaps. Digital financial services can also increase financial inclusion, enabling individuals to access banking services, make transactions, and manage their finances more efficiently.

To address the challenges faced by marginalized communities, targeted interventions can be implemented. These are tailored programs that address specific needs, such as digital literacy training, affordable internet access, and accessible digital services. By focusing on the unique requirements of each community, these interventions can help bridge the digital divide and promote digital inclusion. Community-based initiatives are another effective approach. These are grassroots efforts led by local organizations or community groups that promote digital inclusion and provide support to marginalized communities. By leveraging local knowledge and resources, these initiatives can be more effective in reaching and empowering marginalized populations. Participatory approaches are also crucial in ensuring that digital solutions meet the needs of marginalized communities. This involves involving these communities in the design, development, and implementation of digital solutions, ensuring that their perspectives and needs are taken into account.

6. Conclusion

Digital marginality in India is a multifaceted issue that necessitates a comprehensive socio-legal critique to grasp the intricate intersections of access, exclusion, and inequality in the digital landscape. This complex interplay underscores the need for a nuanced understanding of how digital technologies can both empower and marginalize different segments of society. Future research should focus on addressing existing gaps, particularly in understanding the lived experiences

of marginalized communities in the digital age. Potential areas for further study include the impact of emerging technologies on digital marginality, the role of policy and regulation in promoting digital inclusion, and the effectiveness of current initiatives aimed at bridging the digital divide. Policy recommendations should emphasize the importance of inclusive design, accessible infrastructure, and targeted interventions to address the unique needs of marginalized populations. Finally, promoting digital inclusion and reducing digital marginality in India requires a multi-faceted approach that tackles the socio-legal dimensions of access, exclusion, and inequality. This involves not only expanding digital infrastructure and improving access to technology but also addressing the systemic barriers that prevent marginalized communities from fully participating in the digital economy. By adopting a holistic and inclusive strategy, India can harness the potential of digital technologies to foster more equitable and sustainable development.

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