

Role of Digital Literacy in Promoting Women's Empowerment

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Abstract

Digital literacy has become an important factor in promoting women's empowerment in the present digital age. It enables women to access information, education, health services, banking facilities, government schemes, employment opportunities, and online platforms independently. The present paper examines the role of digital literacy in strengthening women's confidence, decision-making ability, social participation, and economic independence. Digital literacy is not limited to the use of mobile phones or internet services; it also includes safe, meaningful, and independent use of digital tools. The study highlights that women's empowerment can be strengthened when digital access is supported by proper training, online safety, affordability, family support, and gender-sensitive policies. Overall, digital literacy works as a powerful tool for reducing dependence and improving women's participation in social and economic life.

Keywords

Digital Literacy, Women's Empowerment, Digital Inclusion, Gender Equality, Digital Access, Economic Participation

INTRODUCTION

Digital literacy is an essential requirement for women's empowerment in the contemporary period. In the digital age, education, employment, banking, health services, government schemes, entrepreneurship, and social communication are increasingly connected with digital platforms. Women who are digitally literate can use mobile phones, internet services, online forms, digital payments, e-learning platforms, telemedicine, and e-governance services more confidently and independently. Digital literacy helps women move from dependence to self-reliance by improving their access to information, opportunities, services, and decision-making resources. However, many women still face barriers such as lack of personal devices, low digital skills, internet cost, online fraud, privacy concerns, family restrictions, and limited training. Therefore, digital literacy should be understood not only as a

technical skill but also as a social and developmental tool for promoting gender equality and women's empowerment.

Objectives

1. To examine the role of digital literacy in promoting women's empowerment.
2. To study how digital literacy improves women's access to education, health, banking, and government services.
3. To analyze the contribution of digital literacy to women's confidence, decision-making, and economic participation.
4. To identify the major barriers affecting women's digital empowerment.

DIGITAL EMPOWERMENT AMONG WOMEN

Digital empowerment has become an important dimension of women's development in the contemporary period. It refers to women's ability to access, understand, use, and benefit from digital technologies in a meaningful, safe, and independent manner. In the present social context, digital technology is not limited to communication. It is connected with education, employment, banking, health services, public welfare schemes, entrepreneurship, social participation, and access to information. Therefore, digital empowerment among women should be understood as a process through which women gain the skills, confidence, resources, and freedom required to participate effectively in digital life.

Digital empowerment is directly linked with gender equality because unequal access to technology can create new forms of exclusion. If women are unable to use mobile phones, internet services, digital payments, online learning platforms, telemedicine, or e-governance services, they may remain dependent on others for basic information and opportunities. In this sense, digital empowerment is not only a technological matter but also a social and developmental concern. It enables women to expand their knowledge, improve their livelihood options, access services, strengthen communication, and participate more actively in family and community decision-making (International Telecommunication Union, 2023).

Meaning of Digital Empowerment

Digital empowerment means enabling women to use digital technologies for improving their education, economic participation, health awareness, social communication, and decision-making capacity. It includes access to digital devices, internet connectivity, digital literacy, online safety, digital financial

services, e-learning, e-governance, telemedicine, and online entrepreneurship. The concept does not refer merely to the physical availability of technology. It also includes the ability to use technology with understanding, confidence, privacy, and safety.

For women, digital empowerment becomes meaningful when they can use technology independently for practical purposes. These purposes may include attending online classes, searching educational information, applying for jobs, using digital banking, accessing government schemes, communicating with institutions, receiving health guidance, and promoting small businesses. Therefore, digital empowerment is a wider process of inclusion that helps women move from dependence to self-reliance in the digital environment. Women who are excluded from digital systems may also be excluded from modern educational, financial, health-related, and economic opportunities (International Telecommunication Union, 2023).

Components of Digital Empowerment

Digital empowerment among women is a multidimensional process. It cannot be achieved only by providing internet access or mobile phones. Women must have the required skills, confidence, affordability, privacy, safety, and social support to use digital services effectively. The major components of digital empowerment are presented below.

Table 1.1: Major Components of Digital Empowerment among Women

Component	Explanation
Digital access	Availability of mobile phones, computers, internet connectivity, and digital platforms
Digital literacy	Ability to use digital devices, applications, websites, online forms, and digital services
Digital confidence	Confidence to use technology independently without fear or complete dependence on others
Digital safety	Awareness of privacy, cybercrime, online harassment, fraud, fake links, and safe digital behaviour
Digital participation	Use of digital platforms for education, employment, business, health, communication, and public expression

Digital agency	Ability to make informed and independent decisions through digital knowledge and online resources
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The above components show that digital empowerment requires both access and capability. A woman may have access to a smartphone, but she may still remain digitally excluded if she cannot use online forms, digital payments, educational platforms, telemedicine services, privacy settings, or government portals. Similarly, basic phone use does not necessarily mean digital empowerment. Meaningful empowerment begins when women can use digital tools regularly, safely, and independently for improving their personal, social, and economic life (International Telecommunication Union, 2023; UNICEF, 2023).

Digital literacy plays a central role in this process because it converts access into actual use. When women know how to search for information, attend online learning programmes, make digital payments, use e-governance portals, protect personal data, and avoid online fraud, they become more capable of participating in digital society. Therefore, digital empowerment should be understood as a combination of access, skill, confidence, safety, affordability, and purposeful use.

DIGITAL EMPOWERMENT AS SOCIAL EMPOWERMENT

Digital empowerment also functions as a form of social empowerment. It helps women overcome barriers related to mobility, isolation, lack of information, and limited public participation. Through digital platforms, women can continue education from home, communicate with teachers and institutions, join support groups, access welfare schemes, search for employment, start small businesses, receive digital payments, and express their views. This increases women's visibility and participation in social and economic life.

Digital tools are especially useful for women who face restrictions due to household responsibilities, social norms, distance from institutions, or limited mobility. For example, women can use online platforms for skill development, home-based entrepreneurship, digital marketing, customer communication, and financial transactions. Such opportunities can strengthen women's confidence, income-generating ability, and social participation. In this way, digital empowerment can support women's movement from social dependence towards greater self-reliance and agency (Dhanamalar et al., 2020).

However, digital empowerment cannot be achieved through technology alone. Women may continue to face barriers such as lack of family support, low digital literacy, limited device ownership, internet cost, online harassment, privacy concerns, and social criticism. These barriers can reduce women's

ability to use technology freely and confidently. Therefore, digital empowerment must be supported by gender-sensitive digital training, affordable internet, safe online spaces, cyber safety awareness, family support, and inclusive public policies (UN Women, 2023).

Overall, digital empowerment among women is an essential pathway for educational, economic, social, and personal development. It enables women to access information, develop skills, use services, communicate independently, participate in economic activities, and make informed decisions. When supported by literacy, safety, affordability, and social acceptance, digital empowerment becomes a powerful tool for strengthening women's agency and achieving gender equality.

RELATIONSHIP BETWEEN GENDER EQUALITY AND EDUCATION

Education and gender equality are closely connected because education gives women knowledge, confidence, skills, and awareness of their rights. It helps women question discrimination, participate in family and social decisions, access employment, and use digital opportunities. At the same time, gender equality ensures that girls can enrol, continue, and complete education without barriers such as early marriage, household responsibilities, unsafe mobility, or lack of support. In the digital age, education is also necessary for women to use online learning, digital banking, e-governance, and employment platforms meaningfully (UNESCO, 2024).

Education Reduces Gender Discrimination

Education plays a major role in reducing gender discrimination because it challenges the social beliefs and practices that place women in a lower position than men. In many societies, discrimination against girls begins within the family itself, where boys may be given greater priority in education, nutrition, mobility, inheritance, and career opportunities. Girls may be expected to contribute more to household work, care for younger siblings, or accept early marriage. These practices reduce their educational continuity and restrict their future opportunities. Education helps weaken such discriminatory attitudes by showing that girls and women are equally capable of learning, working, leading, and contributing to society.

When girls receive education, they develop awareness of their rights and capabilities. This awareness helps them recognize unequal treatment and question practices that limit their development. Educated women are more likely to understand the importance of health, legal protection, financial independence, political participation, and digital access. They are also more likely to participate in decisions related to marriage, employment, children's schooling, household expenditure, health care, and use of

technology. In this way, education strengthens women's confidence and enables them to move from passive acceptance to active participation.

Education also reduces gender discrimination by improving women's social visibility. When women enter schools, colleges, workplaces, professional fields, and public institutions, society begins to recognize their abilities beyond domestic responsibilities. This recognition helps challenge stereotypes that women are less capable, less rational, or less suited for leadership and decision-making. Girls' education can also reduce early marriage, economic dependency, social exclusion, and limited employment opportunities. Therefore, education becomes a powerful means of improving women's status and reducing gender-based inequality in both private and public life (Evans et al., 2024).

Education also influences family and community attitudes. Parents who see the benefits of girls' education may become more supportive of their daughters' higher education, employment, and digital learning. Communities that value educated women are more likely to support girls' schooling and women's participation in public life. In this way, education does not only change individual women; it gradually changes social attitudes toward women's roles, rights, and capabilities. This makes education a long-term mechanism for reducing gender discrimination.

Education and Gender Role Transformation

Gender roles are socially constructed expectations about what women and men should do, how they should behave, and what responsibilities they should perform. Traditionally, women have often been associated with domestic work, caregiving, obedience, emotional labour, and family responsibilities, while men have been associated with income generation, authority, leadership, and public decision-making. These role divisions create unequal power relations and restrict women's access to education, employment, mobility, leadership, and technology. Education plays a transformative role by challenging these fixed gender roles and expanding women's life choices.

Education helps women understand that their identity is not limited to household duties or caregiving responsibilities. It enables them to see themselves as learners, professionals, workers, entrepreneurs, citizens, leaders, and decision-makers. Educated women are more likely to pursue higher education, vocational training, paid employment, entrepreneurship, leadership positions, and digital careers. They are also more likely to delay early marriage, plan their careers, participate in public discussions, and demand equal respect within the family and society. In this way, education expands women's aspirations and strengthens their ability to participate in different spheres of life.

Education also transforms gender roles by developing critical thinking. It allows women and men to question social practices that normalize inequality. For example, education can challenge the idea that household work is only women's responsibility or that leadership is naturally male. It can also promote shared responsibility within families and equal participation in decision-making. When education promotes dignity, equality, mutual respect, and shared responsibilities, it contributes to more balanced gender relations.

However, education itself must be gender-sensitive. If textbooks, classroom practices, teacher attitudes, institutional rules, or digital learning platforms reproduce stereotypes, education may fail to challenge inequality effectively. For example, if girls are discouraged from science and technology subjects, or if women are represented only in domestic roles in educational materials, gender bias continues within the education system. Therefore, education must actively promote equal participation, inclusive content, safe learning spaces, and encouragement for girls in all fields, including science, technology, leadership, and digital careers (UNESCO, 2024).

Education also affects men's attitudes toward gender roles. Gender equality cannot be achieved by educating women alone. Boys and men must also be educated to respect women's rights, support shared household responsibilities, reject violence, and accept women's participation in education, work, and leadership. When both girls and boys receive gender-sensitive education, society becomes more capable of reducing stereotypes and creating equal opportunities for all.

Education and Intergenerational Change

Women's education has strong intergenerational effects because its benefits extend from one generation to the next. An educated woman is more likely to support her children's education, health, nutrition, emotional development, and overall well-being. She is also more likely to understand the importance of girls' education and encourage her daughters to continue schooling. In this way, women's education contributes to long-term social change within families and communities.

The intergenerational impact of education is especially important for gender equality. Educated mothers are more likely to treat sons and daughters more equally, encourage girls' schooling, delay early marriage, and support skill development. They are also more likely to use health services, understand nutrition, access digital information, and make informed decisions for the family. As a result, women's education improves not only their own status but also the educational and social outcomes of their children.

Education also enables women to become agents of change within the family. An educated woman can challenge discriminatory traditions, promote equal opportunities, support children's learning, and encourage healthier family practices. She may also influence other women in the community by sharing knowledge about education, health, legal rights, government schemes, and digital services. Thus, women's education has a wider social effect because educated women often become sources of awareness and guidance for others.

Intergenerational change also occurs through the transformation of family expectations. When a mother is educated and economically or socially active, children grow up observing women in active and respected roles. This can reduce gender stereotypes among the next generation. Daughters may develop stronger aspirations for education and careers, while sons may develop more equal attitudes toward women's roles. Therefore, women's education contributes to the gradual formation of a more gender-equal society.

In the digital age, educated women also play an important role in supporting digital learning within the family. They are more likely to help children use online educational resources, access digital platforms, understand health information, and benefit from government schemes. This is especially important because education and digital access are increasingly connected. Women's education therefore supports both traditional learning and digital inclusion across generations.

Overall, education is one of the most powerful foundations for gender equality. It reduces gender discrimination by increasing women's awareness and confidence. It transforms gender roles by expanding women's aspirations and participation. It creates intergenerational change by improving family welfare, children's education, and future attitudes toward equality. Therefore, education should be viewed not only as a personal achievement but also as a social force that advances gender equality, women's empowerment, and inclusive development (Evans et al., 2024).

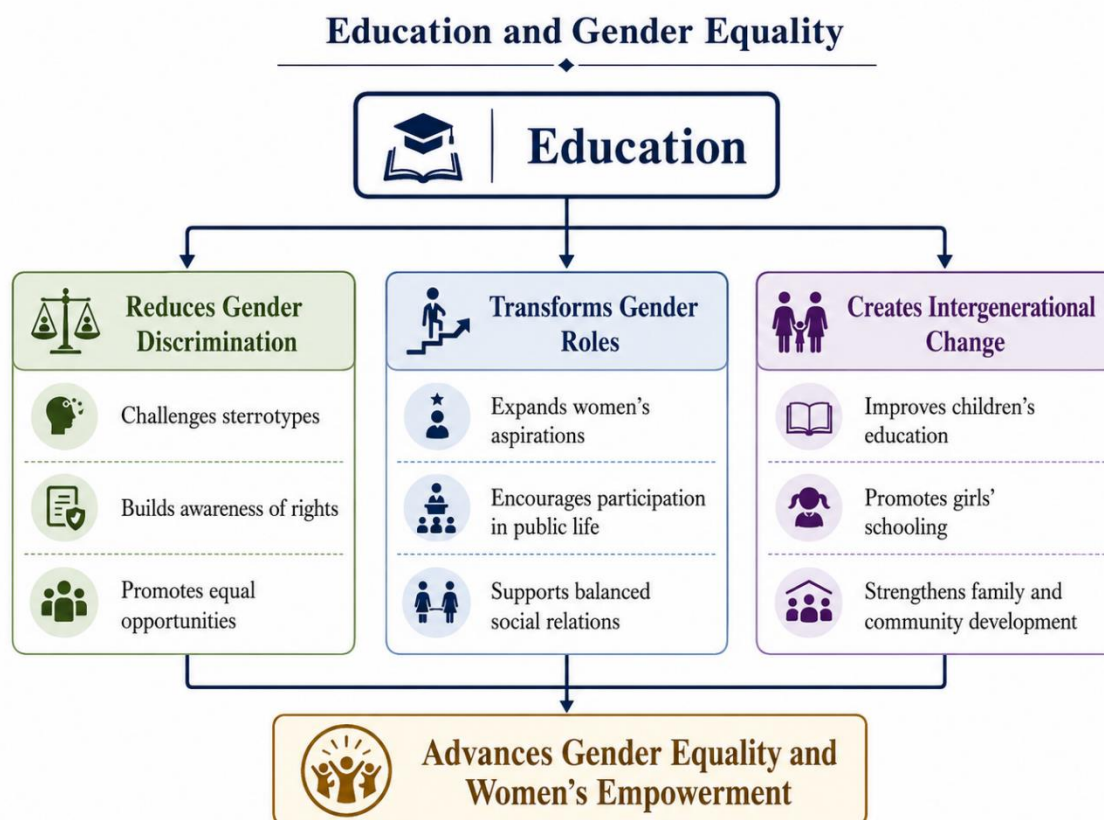


Figure 1.1: Relationship between Gender Equality and Education

Figure 1.1 shows that education contributes to gender equality in three major ways. First, it reduces gender discrimination by challenging stereotypes, building awareness of rights, and promoting equal opportunities. Second, it transforms gender roles by expanding women's aspirations, encouraging public participation, and supporting balanced social relations. Third, it creates intergenerational change by improving children's education, promoting girls' schooling, and strengthening family and community development. Thus, education acts as a central pathway for advancing gender equality and women's empowerment.

Conclusion

Digital literacy plays a significant role in promoting women's empowerment by improving their access to information, services, education, employment, and financial opportunities. It strengthens women's confidence, independence, decision-making ability, and participation in social and economic activities. The study concludes that digital empowerment cannot be achieved through technology access alone; women also need digital skills, safety awareness, affordable internet, family support, and practical training. Therefore, digital literacy is an important pathway for achieving gender equality and strengthening women's overall empowerment.

REFERENCES

- UN Women. (2025). Digital inclusion with a gender lens. UN Women.
- United Nations. (2025). The gender snapshot 2025. United Nations Statistics Division.
- UNESCO. (2024). Global education monitoring report 2024, gender report: Technology on her terms. UNESCO.
- UN Women. (2024). UN Women annual report 2023–2024. UN Women.
- Richardson, P. E. (2024). Evaluating a women's digital inclusion and storytelling project in Zimbabwe. *Journal of Responsible Technology*, 18, 100076.
- Chakradhar, J., & Choudhary, P. K. (2024). Digital inclusion and women development: Evidence from Indian states. In *Intersecting paths of sustainable development, urbanization, and women's empowerment* (pp. 221–240). Springer.
- UN Women. (2023). Innovation and technological change, and education in the digital age for achieving gender equality and the empowerment of all women and girls. UN Women.
- International Telecommunication Union. (2023). Facts and figures 2023: Measuring digital development. ITU.
- UNESCO. (2023). Digital technology is key to improve literacy learning for girls and women. UNESCO.
- UNICEF. (2023). Bridging the digital divide for girls and young women. UNICEF.
- UN Women. (2022). Progress on the sustainable development goals: The gender snapshot 2022. UN Women.
- GSMA. (2022). The mobile gender gap report 2022. GSMA.
- Mangla, S. (2021). Digital literacy and women empowerment: A case study of Delhi urban slums. *International Research Journal of Management Sociology & Humanity*, 12(4), 172–177.
- Dhanamalar, M., Prema, S., & Rajkumar, S. (2020). Digital literacy and women empowerment. *Journal of Critical Reviews*, 7(4), 148–151.
- OECD. (2019). Bridging the digital gender divide: Include, upskill, innovate. OECD Publishing.