

TRANSFORMATIVE EDUCATION AND FUTURE LEARNING: BUILDING SKILLS FOR THE DIGITAL ECONOMY

Suresh A¹, Dr. R. M. Thirumaran²

¹Ph.D. Research Scholar (Full-Time), PG & Research Department of Commerce,
Pachaiyappa's College, Chennai – 600 030. Email: sureshax1220@gmail.com

²Research Supervisor & Guide, PG & Research Department of Commerce, Pachaiyappa's
College, Chennai – 600 030. Email: rmthiru68@yahoo.com

ABSTRACT

Transformative education has emerged as a key approach to preparing learners with the knowledge, digital competencies, and employability skills required in the rapidly evolving digital economy. This study examines the role of transformative education in developing future-ready skills, identifies the key digital and employability competencies, analyses the opportunities and challenges of technology-enabled learning, and suggests strategies for improving education systems. The study adopts a descriptive research design and is based on secondary data collected from academic journals, books, government reports, publications of international organisations, and credible online sources. The collected data were analysed using qualitative and descriptive analysis to identify major trends and relationships between transformative education and workforce readiness. The findings reveal that technology-enabled learning, digital literacy, critical thinking, creativity, communication, collaboration, problem-solving, and lifelong learning are essential for preparing learners for future careers. The study also identifies challenges such as inadequate digital infrastructure, unequal access to technology, limited teacher preparedness, cybersecurity concerns, and the digital divide. The study concludes that strengthening digital infrastructure, modernising curricula, investing in teacher development, and promoting inclusive technology-enabled learning are essential for building a skilled, adaptable, and future-ready workforce capable of contributing to sustainable economic growth in the digital economy.

Keywords: Transformative Education, Future Learning, Digital Economy, Digital Literacy, Technology-Enabled Learning, Employability Skills, Lifelong Learning, Workforce Readiness

I. INTRODUCTION

Education is undergoing a profound transformation due to rapid technological advancements and the increasing demand for digital skills in the modern economy. The emergence of technologies such as artificial intelligence (AI), cloud computing, big data analytics, virtual reality, online learning platforms, and digital collaboration tools has reshaped traditional teaching and learning methods. This shift, commonly referred to as transformative education, emphasises innovation, lifelong learning, critical thinking, creativity, and digital literacy to prepare individuals for the challenges and opportunities of the twenty-first century.

The digital economy has significantly changed the nature of work by creating new industries, redefining existing job roles, and increasing the demand for technologically skilled professionals. Employers now seek individuals who possess not only technical expertise but also problem-solving abilities, communication skills, adaptability, collaboration, and continuous learning capabilities. As a result, educational institutions are required to redesign curricula, adopt technology-enabled teaching methods, and develop learner-centred approaches that equip students with relevant knowledge and practical skills for future employment.

Transformative education extends beyond the integration of digital technologies into classrooms. It promotes inclusive, flexible, and personalised learning experiences that encourage innovation, entrepreneurship, and lifelong learning. Digital learning platforms, virtual classrooms, simulation-based training, and blended learning models have expanded access to quality education while enabling students to learn anytime and anywhere. These approaches help bridge the gap between academic learning and industry requirements, ensuring that graduates are prepared for an increasingly digital and knowledge-based economy.

Governments, educational institutions, and industries are investing in digital infrastructure, teacher training, and skill development initiatives to strengthen education systems and improve workforce readiness. International organisations also emphasise the importance of digital literacy, STEM education, and lifelong learning as essential drivers of sustainable economic growth and social development. These efforts aim to create a workforce capable of adapting to rapid technological changes and contributing effectively to innovation and economic competitiveness.

Despite these advancements, several challenges remain. Educational institutions face issues such as unequal access to digital technologies, inadequate infrastructure, limited digital competencies among educators, cybersecurity concerns, and disparities in internet connectivity. In addition, ensuring the quality, accessibility, and inclusiveness of digital education requires continuous investment, policy support, and collaboration among governments, educational institutions, technology providers, and industry partners.

This study examines the role of transformative education in preparing learners for the future digital economy by developing essential digital, technical, and employability skills. It explores the emerging trends in educational transformation, the competencies required for future careers, the opportunities and challenges associated with digital learning, and strategies for creating an innovative, inclusive, and future-ready education system. The study aims to provide valuable insights for educators, policymakers, researchers, students, and industry stakeholders seeking to strengthen education and workforce development in the digital age.

II. BACKGROUND OF THE STUDY

The rapid advancement of digital technologies has transformed nearly every aspect of society, including education. The emergence of artificial intelligence (AI), cloud computing, big data,

virtual learning environments, online collaboration tools, and mobile technologies has changed the way knowledge is created, delivered, and accessed. Traditional education systems are evolving into more flexible, technology-enabled learning environments that prepare students for the demands of the digital economy.

The digital economy has created new employment opportunities while also changing the skills required in the workplace. Employers increasingly seek individuals who possess digital literacy, critical thinking, creativity, problem-solving, communication, collaboration, and adaptability. As automation and emerging technologies continue to reshape industries, education systems must equip learners with both technical competencies and essential soft skills to remain competitive in the future workforce.

Transformative education focuses on learner-centred teaching approaches that encourage innovation, lifelong learning, and practical skill development. It goes beyond the traditional classroom by integrating digital technologies, project-based learning, blended learning, online education, and experiential learning methods. These approaches enable students to acquire knowledge more effectively while developing the competencies needed to succeed in a technology-driven world.

The COVID-19 pandemic accelerated the adoption of digital learning worldwide. Schools, colleges, and universities rapidly shifted to online and hybrid learning models to ensure continuity in education. This transition highlighted both the opportunities and challenges of digital education. While technology expanded access to learning and increased flexibility, it also exposed issues such as unequal internet access, limited digital infrastructure, insufficient teacher training, and disparities in digital literacy among students.

Governments, educational institutions, and international organisations have recognised the importance of strengthening digital education to support economic development and workforce readiness. Investments in digital infrastructure, teacher professional development, curriculum modernisation, and digital skills training have become key priorities. These initiatives aim to bridge the gap between education and industry requirements while fostering innovation, entrepreneurship, and lifelong learning.

Despite significant progress, several challenges remain in implementing transformative education effectively. Many educational institutions face financial constraints, inadequate technological resources, cybersecurity concerns, resistance to change, and limited access to quality digital learning materials. In addition, there is a growing need to ensure that education remains inclusive, equitable, and accessible so that all learners can benefit from technological advancements regardless of their socioeconomic background.

Against this backdrop, this study examines the role of transformative education in building the knowledge, skills, and competencies required for the digital economy. It explores how innovative teaching methods and digital technologies contribute to future learning, identifies

the key skills needed for workforce readiness, examines the challenges of educational transformation, and suggests strategies for developing an inclusive, technology-driven education system. The findings are expected to provide valuable insights for educators, policymakers, students, researchers, and industry stakeholders in promoting sustainable educational and economic development.

III. SCOPE OF THE STUDY

This study focuses on examining the role of transformative education and future learning in building the skills required for the digital economy. It explores how modern educational approaches and digital technologies contribute to developing learners' knowledge, competencies, and employability skills needed in a technology-driven world. The study covers key aspects of transformative education, including digital learning, blended learning, online education, artificial intelligence (AI), virtual learning environments, and technology-enabled teaching methods.

The research examines the essential skills required for the digital economy, such as digital literacy, critical thinking, problem-solving, creativity, communication, collaboration, adaptability, and lifelong learning. It also analyses the role of educational institutions, educators, governments, and industry in preparing students for future careers through curriculum innovation, digital infrastructure, and skill development initiatives.

In addition, the study identifies the opportunities and challenges associated with implementing transformative education, including issues related to digital access, technological infrastructure, teacher preparedness, cybersecurity, and the digital divide. It also suggests strategies for strengthening education systems and enhancing workforce readiness in the digital era.

The study is based primarily on secondary data collected from academic journals, books, government reports, international organisation publications, and credible online sources. It provides a general overview of global trends in transformative education and future learning rather than focusing on a specific educational institution or country. Therefore, the findings are intended to offer broad insights and recommendations for educators, policymakers, researchers, students, and other stakeholders interested in promoting quality education and developing skills for the digital economy.

IV. IMPORTANCE OF THE STUDY

This study is important because it examines how transformative education and future learning can develop the knowledge, skills, and competencies required for success in the digital economy. As technology continues to reshape education and employment, understanding the role of innovative teaching methods and digital learning has become essential for preparing learners for future careers and lifelong learning.

The study is valuable for educational institutions as it highlights the importance of adopting modern teaching approaches, integrating digital technologies into the curriculum, and promoting skill-based learning. It provides insights that can help schools, colleges, and universities improve the quality of education and prepare students for the changing demands of the workforce.

For educators, the study emphasises the need to enhance teaching practices through digital tools, interactive learning methods, and continuous professional development. It encourages teachers to create learner-centred environments that foster critical thinking, creativity, collaboration, and problem-solving skills.

The findings are also beneficial to students by identifying the essential digital, technical, and employability skills needed for future careers. The study encourages learners to develop digital literacy, adaptability, communication skills, and lifelong learning habits, enabling them to remain competitive in the evolving job market.

For policymakers and government agencies, the study provides useful information for designing education policies, investing in digital infrastructure, strengthening teacher training, and promoting equitable access to quality education. It supports efforts to build a skilled workforce capable of contributing to national economic growth and innovation.

Researchers and academicians can use this study as a reference for future investigations into transformative education, digital learning, skill development, and workforce readiness. It contributes to the existing body of knowledge by highlighting current trends, opportunities, and challenges in educational transformation.

Overall, this study emphasises that transformative education is essential for building a future-ready workforce. By promoting digital learning, innovation, and lifelong skill development, it supports sustainable educational progress, economic development, and social well-being in the digital age.

V. SIGNIFICANCE OF THE STUDY

This study is significant because it examines the role of transformative education and future learning in developing the skills required for the digital economy. The findings provide valuable insights into how educational institutions, educators, policymakers, and learners can adopt innovative teaching and learning practices to prepare for the changing demands of the modern workforce.

Educational Institutions: The study will help schools, colleges, and universities understand the importance of integrating digital technologies, learner-centred teaching methods, and skill-based education into their academic programs. It provides guidance for improving curriculum design and preparing students for future careers.

Educators: The findings will assist teachers and trainers in adopting innovative teaching strategies, digital learning tools, and interactive instructional methods. The study emphasises the importance of developing students' critical thinking, creativity, communication, collaboration, and problem-solving skills.

Students: Students will benefit by gaining a better understanding of the digital, technical, and employability skills required in the modern job market. The study encourages lifelong learning, adaptability, and continuous skill development to improve career opportunities in the digital economy.

Policymakers and Government Agencies: The study provides useful information for developing education policies that promote digital literacy, curriculum modernisation, teacher training, and investment in digital infrastructure. The findings can support initiatives aimed at improving the quality, accessibility, and inclusiveness of education.

Employers and Industry: The study highlights the importance of collaboration between educational institutions and industries in aligning education with workforce needs. Employers can use the findings to support partnerships, internships, and skill development programs that prepare graduates for employment.

Researchers and Academicians: This study contributes to the existing literature on transformative education, future learning, and digital skills. It serves as a valuable reference for future research on educational innovation, technology integration, and workforce readiness.

Society: At the societal level, the study demonstrates how transformative education contributes to economic development, social inclusion, innovation, and lifelong learning. Developing a digitally skilled workforce strengthens national competitiveness and supports sustainable development in the digital age.

Overall, the significance of this study lies in its contribution to improving educational practices, enhancing workforce readiness, promoting digital skills, and supporting the development of a knowledgeable, innovative, and future-ready society.

VI. OBJECTIVES OF THE STUDY

1. To examine the role of transformative education in developing skills for the digital economy.
2. To identify the key digital and employability skills required for future learning and careers.
3. To analyse the opportunities and challenges of technology-enabled learning in education.

4. To suggest strategies for improving transformative education and preparing learners for the digital economy.

VII. HYPOTHESES OF THE STUDY

Hypothesis 1

Null Hypothesis (H_{01}): Transformative education has no significant role in developing skills for the digital economy.

Alternative Hypothesis (H_{11}): Transformative education has a significant role in developing skills for the digital economy.

Hypothesis 2

Null Hypothesis (H_{02}): Key digital and employability skills have no significant influence on future learning and career readiness.

Alternative Hypothesis (H_{12}): Key digital and employability skills have a significant influence on future learning and career readiness.

Hypothesis 3

Null Hypothesis (H_{03}): Technology-enabled learning has no significant impact on the opportunities and challenges in education.

Alternative Hypothesis (H_{13}): Technology-enabled learning has a significant impact on the opportunities and challenges in education.

Hypothesis 4

Null Hypothesis (H_{04}): Strategies for improving transformative education have no significant relationship with preparing learners for the digital economy.

Alternative Hypothesis (H_{14}): Strategies for improving transformative education have a significant relationship with preparing learners for the digital economy.

VIII. STATEMENT OF THE PROBLEM

The rapid growth of digital technologies has transformed the education sector and created new demands for digital knowledge and employability skills. Educational institutions are expected to prepare learners with the competencies required to succeed in the digital economy. Transformative education, supported by technology-enabled learning, plays a vital role in developing critical thinking, creativity, digital literacy, problem-solving, and lifelong learning skills. However, many institutions continue to face challenges such as inadequate digital

infrastructure, unequal access to technology, limited teacher preparedness, and gaps between educational outcomes and industry requirements.

Although significant progress has been made in adopting digital learning, there is still a need to understand how transformative education contributes to skill development, the key competencies required for future careers, the opportunities and challenges of technology-enabled learning, and the strategies needed to improve education for the digital economy. Therefore, this study seeks to examine the role of transformative education and future learning in building skills for the digital economy.

Specifically, the study seeks to answer the following research questions:

1. What is the role of transformative education in developing skills for the digital economy?
2. What are the key digital and employability skills required for future learning and careers?
3. What are the opportunities and challenges of technology-enabled learning in education?
4. What strategies can improve transformative education and better prepare learners for the digital economy?

IX. CONCEPTUAL MODEL

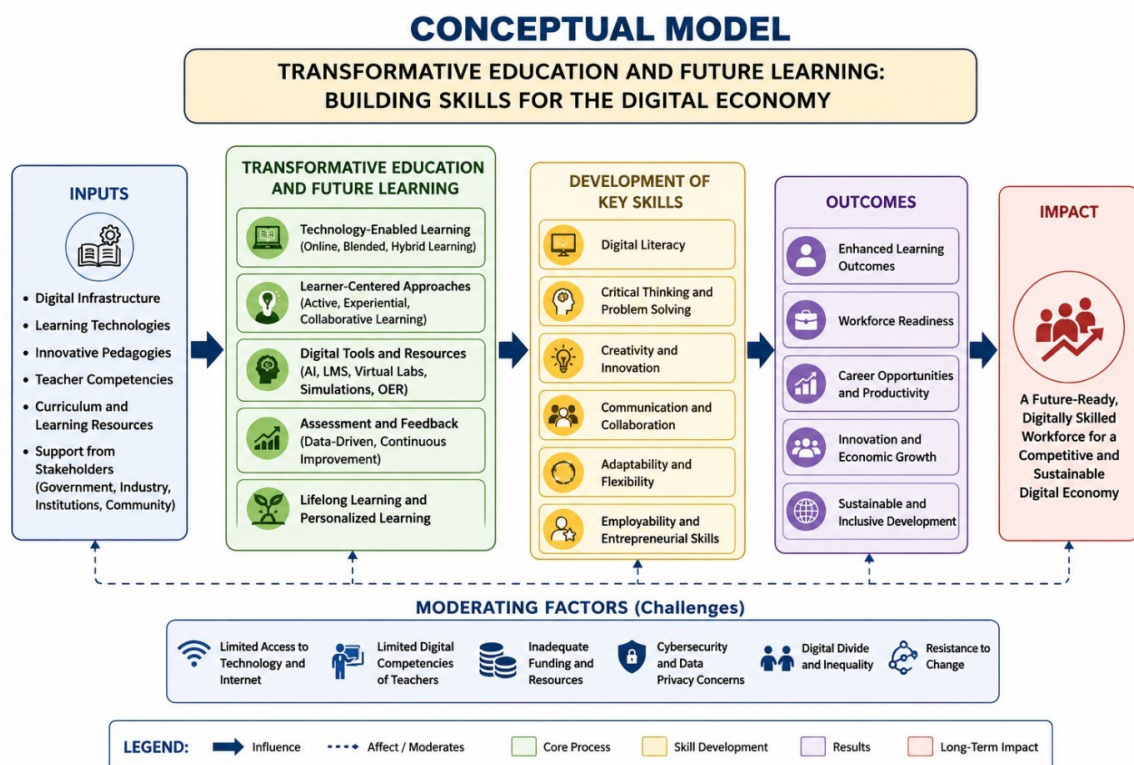


Figure 1: Conceptual model of the study

X. REVIEW OF THE LITERATURE

Mahmadov (2025): Digital learning has become a transformative element of modern education, significantly changing conventional teaching practices and enriching the overall learning experience. The widespread adoption of digital technologies has enabled educational institutions to provide more flexible, interactive, and learner-centred approaches that improve access to quality education. Technologies such as e-learning platforms, virtual classrooms, learning management systems, and mobile applications have expanded learning opportunities beyond traditional classrooms, allowing students to learn anytime and anywhere. Digital learning also supports personalised instruction by addressing individual learning needs and promoting active engagement. Furthermore, it facilitates global collaboration and knowledge sharing, helping to reduce educational barriers and increase access to learning resources. Despite these advantages, the effective implementation of digital learning continues to face challenges, including unequal access to digital technologies, inadequate infrastructure, limited teacher readiness, and concerns related to digital inclusion. By examining current trends, research findings, and practical applications, this study highlights the evolving role of digital learning in enhancing educational quality, developing future-ready skills, and shaping the future of education in the digital age.

Mhaske, Bhattacharjee, Halder, Upadhyay and Mandal (2025): The rapid digital transformation of industries has created a growing mismatch between the digital skills demanded by employers and those possessed by the workforce. This study examines the key factors contributing to this digital skills gap and presents a comprehensive conceptual framework to address the challenge. A mixed-methods approach was employed, combining expert interviews with a systematic literature review guided by the PRISMA framework to provide a broad understanding of the issue. The findings reveal that the development of digital infrastructure, investment in digital skill training, supportive government policies, digital literacy initiatives, industry-oriented curricula, and organisational digital maturity are essential drivers of workforce readiness. Conversely, inadequate access to quality education, outdated curricula, limited technological infrastructure, high implementation costs, and insufficient policy support remain major obstacles to digital skill development. Drawing on the Resource-Based View (RBV), the Technology Acceptance Model (TAM), and the Technology–Organisation–Environment (TOE) framework, the study proposes an integrated conceptual model that explains how organisational and individual factors influence digital skill acquisition. The framework provides practical guidance for designing inclusive and sustainable upskilling strategies, offering valuable insights for educators, researchers, policymakers, human resource professionals, and industry leaders seeking to develop a resilient and digitally competent workforce for the evolving digital economy.

Kozhukhova, Agaphonov and Korobkova (2022): The rapid advancement of digitalisation has transformed the global economy, reshaping industries, businesses, and entrepreneurial activities through the adoption of Industry 4.0 technologies. The integration of advanced digital

technologies has fundamentally changed business processes, organisational structures, and workforce requirements. As end-to-end digital technologies continue to expand across economic sectors, there is an increasing need to redefine the role of human capital and identify the competencies required for success in the digital era. This study provides a comprehensive perspective on the skills needed for the digital future by examining digital competencies and their significance for workforce development. It also explores the challenges faced by businesses and educational institutions in preparing individuals with relevant digital skills, reviews existing and emerging approaches to overcoming these challenges, and discusses competency forecasting tools that align workforce capabilities with future labour market demands driven by technological innovation and global change. Furthermore, the study highlights the characteristics of a future-ready human resource model capable of supporting sustainable growth and competitiveness in the digital economy.

XI. RESEARCH GAP

Few studies have examined digital learning, educational technology, and skill development in the context of the digital economy. Many researchers have focused on online learning, digital literacy, and artificial intelligence (AI), blended learning, and the integration of technology into education. Other studies have explored the importance of employability skills and lifelong learning for workforce readiness.

However, there is limited research that comprehensively examines how transformative education and future learning together contribute to building the skills required for the digital economy. Most previous studies focus on a single aspect of education, such as digital learning platforms, technology adoption, or curriculum development, rather than offering a holistic understanding of the relationships among transformative education, future learning, digital skills, and career readiness. In addition, many studies emphasise the benefits of technology-enabled learning while giving less attention to the challenges faced by educational institutions and the practical strategies needed to prepare learners for future employment.

Therefore, this study aims to bridge this gap by providing a comprehensive analysis of the role of transformative education in developing digital and employability skills, identifying the opportunities and challenges of technology-enabled learning, and proposing effective strategies for preparing learners for the digital economy. The findings are expected to contribute to the existing literature and provide practical guidance for educators, educational institutions, policymakers, researchers, and industry stakeholders.

XII. RESULTS AND DISCUSSION

The study examined the role of transformative education and future learning in developing skills for the digital economy. The analysis indicates that technology-enabled education plays a significant role in preparing learners with the knowledge, digital competencies, and employability skills required in today's rapidly changing workforce. The findings highlight that

integrating innovative teaching methods, digital technologies, and learner-centred approaches enhances educational quality and improves career readiness.

Objective 1: To examine the role of transformative education in developing skills for the digital economy

The study found that transformative education significantly contributes to the development of digital literacy, critical thinking, creativity, communication, collaboration, and problem-solving skills. Technology-enabled learning environments encourage active participation, personalised learning, and lifelong learning, enabling students to adapt to changing workplace demands and technological advancements.

Objective 2: To identify the key digital and employability skills required for future learning and careers

The findings identified digital literacy, information and communication technology (ICT) skills, critical thinking, problem-solving, creativity, communication, collaboration, adaptability, and lifelong learning as the essential competencies required for success in the digital economy. These skills improve learners' employability, innovation capabilities, and readiness for future careers.

Objective 3: To analyse the opportunities and challenges of technology-enabled learning in education

The study revealed several opportunities, including increased access to education, flexible learning environments, personalised instruction, global collaboration, and improved learning outcomes through digital technologies. However, challenges such as inadequate digital infrastructure, unequal access to technology, limited teacher training, cybersecurity concerns, resistance to change, and the digital divide continue to affect the successful implementation of transformative education.

Objective 4: To suggest strategies for improving transformative education and preparing learners for the digital economy

The findings suggest that educational institutions should modernise curricula, strengthen digital infrastructure, invest in teacher professional development, promote digital literacy, encourage industry-academic collaboration, and adopt learner-centred teaching methods. Governments should support policies that improve equitable access to technology and digital education. Continuous curriculum review and lifelong learning opportunities are also essential to prepare learners for future employment.

Discussion

The findings demonstrate that transformative education is essential for building a workforce capable of meeting the demands of the digital economy. Integrating technology into education

not only improves teaching and learning processes but also equips students with the competencies needed for innovation, productivity, and career success. Digital learning platforms, artificial intelligence, virtual learning environments, and blended learning models enhance educational accessibility and support continuous skill development.

Despite these benefits, successful implementation of transformative education requires addressing challenges related to infrastructure, digital inclusion, teacher readiness, and cybersecurity. Collaboration among educational institutions, governments, industry partners, and technology providers is necessary to create an inclusive and future-ready education system. Overall, the results support the study's hypotheses by demonstrating that transformative education has a significant positive influence on skill development, future learning, and workforce readiness. The study concludes that strengthening technology-enabled education is essential for preparing learners to succeed in the digital economy and contribute to sustainable social and economic development.

XIII. FINDINGS

Based on the analysis of the study, the following major findings were identified:

1. Transformative education plays a significant role in developing the digital knowledge, critical thinking, problem-solving, communication, collaboration, and creativity skills required for the digital economy.
2. Digital literacy, information and communication technology (ICT) skills, adaptability, lifelong learning, and employability skills are the key competencies needed for future learning and career success.
3. Technology-enabled learning provides several opportunities, including flexible learning, improved access to education, personalised learning experiences, enhanced student engagement, and better workforce readiness.
4. The major challenges affecting transformative education include inadequate digital infrastructure, unequal access to technology, limited teacher digital competencies, cybersecurity concerns, resistance to change, and the digital divide.
5. Effective implementation of transformative education requires curriculum modernisation, investment in digital infrastructure, continuous teacher training, stronger industry–institution collaboration, and policies that promote digital inclusion and lifelong learning.
6. The study confirms that transformative education positively contributes to preparing learners for the digital economy by improving educational quality, employability, innovation, and lifelong learning.

7. The findings support the alternative hypotheses of the study, indicating that transformative education and technology-enabled learning have a significant positive influence on skill development, future learning, and workforce readiness.

XIV. CONCLUSION

Transformative education has become essential for preparing learners to succeed in the rapidly evolving digital economy. This study examined the role of transformative education in developing digital and employability skills, identified the key competencies required for future learning and careers, analysed the opportunities and challenges of technology-enabled learning, and suggested strategies for improving education systems.

The findings reveal that transformative education, supported by digital technologies such as online learning platforms, artificial intelligence (AI), virtual learning environments, and blended learning methods, significantly enhances digital literacy, critical thinking, creativity, communication, collaboration, and problem-solving skills. These competencies are essential for improving employability, innovation, and lifelong learning in the modern workforce.

The study also found that although technology-enabled learning offers numerous benefits, including flexible learning, improved access to education, and enhanced learning outcomes, several challenges remain. These include inadequate digital infrastructure, unequal access to technology, limited teacher preparedness, cybersecurity concerns, resistance to change, and the digital divide. Addressing these challenges requires investment in digital infrastructure, curriculum modernisation, continuous teacher training, supportive government policies, and stronger collaboration between educational institutions and industry.

Overall, the study concludes that transformative education plays a significant role in building the skills required for the digital economy. By adopting innovative teaching approaches and integrating digital technologies into education, institutions can prepare learners for future careers, promote lifelong learning, and contribute to sustainable economic and social development. Therefore, governments, educational institutions, educators, and industry stakeholders should continue to support educational transformation to develop a skilled, adaptable, and future-ready workforce.

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