INTELLIGENT POWER:

AI, DIGITAL CONTROL, AND GEOPOLITICAL TRANSFORMATION



EDITORS

Dr. B. Indira Priyadharshini

Mr. A. Prakalathan

Dr. D. Saranya

Dr. M. Nirmala

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INTELLIGENT POWER: AI DIGITAL CONTROL AND GEOPOLITICS TRANSFORMATION

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Mr. A. Prakalathan
Dr. D. Saranya
Dr. M. Nirmala

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EDUCATIONAL TRANSFORMATION IN THE NEW GLOBAL WORLD

Dr. S.Poongodi

Assistant Professor,

PG Department of Commerce-CA,

NGM College, Pollachi, Tamil Nadu, India,

Email: poongodimuruganantham@gmail.com,

Ph.no: 9842063008

ABSTRACT

Digital transformation has become a defining feature of modern education, influencing teaching methodologies, learning experiences, institutional management, and policy development. The integration of Artificial Intelligence (AI), cloud computing, learning management systems, and digital communication platforms has significantly altered educational practices worldwide. While these technological advancements offer opportunities for personalized learning, accessibility, and efficiency, they also present challenges related to digital literacy, cybersecurity, infrastructure, and equitable access. This study examines the perceptions of students and faculty members regarding digital transformation and its impact on the future of education. A descriptive survey was conducted among 150 respondents from higher educational institutions using a structured questionnaire. Data were analyzed using percentage analysis and mean score analysis. The findings indicate that respondents strongly support the adoption of digital technologies in education and recognize their potential to enhance learning outcomes. However, concerns regarding cybersecurity risks, inadequate digital infrastructure, and unequal access remain significant. The study concludes that educational institutions must strengthen digital competencies, improve technological infrastructure, and develop policies that promote responsible and inclusive digital transformation. The findings contribute to the growing discourse on the future of education in an increasingly digital world.

Keywords: *Digital Transformation, Education, Artificial Intelligence, Digital Learning, Educational Technology, Higher Education*

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INTRODUCTION

Digital transformation has emerged as a powerful force reshaping educational systems across the globe. The rapid advancement of digital technologies, including Artificial Intelligence (AI), cloud computing, big data analytics, virtual learning environments, and mobile technologies, has revolutionized the way education is delivered and experienced. Educational institutions are increasingly integrating digital tools into teaching, learning, assessment, and administrative processes to enhance efficiency, accessibility, and learner engagement. The COVID-19 pandemic accelerated the adoption of digital technologies in education, compelling institutions to transition from traditional classroom-based instruction to online and hybrid learning models. This transformation highlighted the importance of digital readiness among educators and students while exposing challenges related to infrastructure, digital literacy, and technological accessibility. As educational institutions continue to adapt to technological advancements, digital transformation has become a strategic priority for improving educational quality and competitiveness. Artificial Intelligence has emerged as a particularly influential technology in education. AI-powered systems facilitate personalized learning, automate administrative functions, provide intelligent tutoring, and support data-driven decision-making. These innovations have the potential to improve learning outcomes and increase educational efficiency. However, concerns regarding data privacy, cybersecurity, ethical use of technology, and digital inequality remain significant challenges. Furthermore, digital transformation extends beyond technological adoption. It requires organizational change, policy development, skill enhancement, and cultural adaptation. Educational institutions must develop comprehensive strategies that integrate technology effectively while ensuring inclusivity, security, and sustainability. In this context, understanding stakeholders' perceptions of digital transformation is essential for guiding educational policies and practices. The present study investigates the views of students and faculty members regarding the opportunities and challenges associated with digital transformation in education. By examining these perspectives, the study seeks to contribute to discussions on how educational institutions can prepare learners for the demands of a digitally connected future.

REVIEW OF LITERATURE

Crompton and Burke (2023) investigated the application of Artificial Intelligence (AI) in higher education and found that AI technologies are increasingly used for personalized learning, intelligent tutoring, automated assessment, and student support services. Their study revealed that AI has the potential to improve learning outcomes and educational efficiency. However, the authors emphasized the need for institutional preparedness and ethical guidelines for effective AI integration in education. **Maphosa and Maphosa (2023)** conducted a bibliometric analysis of AI research in higher education and reported substantial growth in scholarly interest regarding AI-enabled learning environments. The study found that AI contributes significantly to educational innovation by supporting adaptive learning, predictive analytics, and academic decision-making. The authors concluded that AI is becoming a transformative force in higher

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education institutions. **Rahiman and Kodikal (2024)** examined AI-empowered learning in higher education and observed that AI technologies improve accessibility, learner engagement, and educational flexibility. Their findings indicated that AI-driven platforms facilitate personalized learning experiences and support student-centered education. The study also highlighted the importance of digital readiness among educators and students. **Gkrimpizi et al. (2024)** explored the meaning and scope of digital transformation in higher education institutions. Their research found that digital transformation extends beyond technology adoption and includes organizational change, strategic planning, and innovation in educational processes. The authors emphasized that successful digital transformation requires institutional commitment and long-term digital strategies. **Santoveña-Casal and López (2024)** investigated the evolution of digital pedagogies in higher education. The study found that digital pedagogical approaches promote collaborative learning, student engagement, and knowledge creation through technology-enhanced environments. The authors argued that digital pedagogy is becoming a central component of modern educational systems. **Williamson et al. (2020)** examined the rapid adoption of digital technologies during the COVID-19 pandemic and found that educational institutions worldwide accelerated their digital transformation efforts. Their study highlighted both opportunities and challenges associated with online learning, including issues of accessibility, digital inequality, and technological readiness. **Chan (2023)** investigated the implications of generative AI in university teaching and learning. The findings showed that AI applications enhance educational productivity and support innovative learning experiences. However, concerns regarding academic integrity, ethical use, and governance were identified as major challenges requiring institutional policy frameworks.

STATEMENT OF THE PROBLEM

Digital transformation is fundamentally changing educational systems through the integration of advanced technologies, digital learning environments, and AI-driven solutions. While these innovations offer numerous benefits, educational institutions continue to face challenges related to digital literacy, infrastructure, cybersecurity, and equitable access. Understanding stakeholder perceptions is essential for ensuring successful digital transformation. Therefore, the present study investigates the impact of digital transformation on the future of education.

OBJECTIVES OF THE STUDY

- To examine perceptions regarding digital transformation in education.
- To identify the benefits of digital technologies in teaching and learning.
- To assess challenges associated with digital transformation.
- To determine essential competencies required for future learning environments.

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RESEARCH METHODOLOGY

The study is based on primary data. The data is collected through a well structured questionnaire. It contains questions relating to demographics of students and faculty members, perceived benefits of digital transformation, challenges of digital transformation and future skills required. A sample of 150 respondents from higher education in Pollachi Taluk has been selected by adopting convenience sampling method. Simple Percentage and Mean Score analysis have been used to analyze the data.

FINDINGS

The findings of the study are divided into four sections namely, demographic profile, perceived benefits of digital transformation, challenges of digital transformation and future skills required are showed in the following paragraphs.

(i) Demographic Profile of Respondents

Table: 1

Demographic Profile

Variables	Frequency(N=150)	Percentage (%)
Category of Respondents		
Students	110	73.3
Faculty	40	26.7
Gender		
Male	78	52.0
Female	72	48.0

From the above table it is found that the majority of respondents were (73.3%) students, indicating a strong learner perspective in the study.

(ii) Perceived Benefits of Digital Transformation

Table: 2

Perceived Benefits of Digital Transformation

Statement	Mean Score
Enhances access to learning resources	4.45
Improves learning flexibility	4.38
Supports personalized learning	4.31

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Statement	Mean Score
Enhances student engagement	4.19
Improves communication and collaboration	4.12

From the above table it is observed that respondents strongly agreed that digital transformation enhances access to educational resources and provides greater learning flexibility.

(iii) Challenges of Digital Transformation

Table: 3

Challenges of Digital Transformation

Challenge	Percentage (%)
Cybersecurity risks	82.0
Lack of digital skills	76.0
Poor internet connectivity	71.3
Limited technological infrastructure	68.7
Digital inequality	65.3

From the above table it is found that cybersecurity risks emerged as the most significant challenge, followed by lack of digital skills and internet connectivity issues.

(iv) Future Skills

Table: 4

Future Skills Required

Skill	Percentage (%)
Digital Literacy	94.0
Critical Thinking	92.7
Problem Solving	90.0
Adaptability	88.7
AI Literacy	86.7

From the above table it is found that digital literacy and critical thinking were identified as the most essential competencies for future educational success.

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SUGGESTIONS

- To strengthen digital infrastructure and internet connectivity.
- To incorporate digital literacy training into curricula.
- To develop cybersecurity awareness programs.
- To promote ethical and responsible use of AI technologies.
- To ensure equitable access to digital resources.
- To encourage continuous professional development for educators.
- To formulate institutional policies supporting digital transformation.

CONCLUSION

Digital transformation is reshaping the educational landscape by creating new opportunities for teaching, learning, and institutional development. The findings of this study demonstrate that students and faculty members generally view digital transformation positively and recognize its potential to improve educational accessibility, flexibility, and effectiveness. Digital technologies enable personalized learning experiences, facilitate communication, and support innovative teaching methodologies that prepare learners for an increasingly technology-driven world. Despite these advantages, several challenges continue to affect the successful implementation of digital transformation. Cybersecurity risks, inadequate digital skills, limited infrastructure, and unequal access to technology remain significant concerns. These challenges highlight the need for educational institutions to adopt comprehensive strategies that combine technological innovation with capacity building and policy development. The study further reveals that digital literacy, critical thinking, problem-solving, and adaptability are essential competencies for future learners. Educational institutions must therefore focus on developing these skills through curriculum redesign, faculty development programs, and technology-enhanced learning environments. Overall, digital transformation is not merely a technological shift but a fundamental change in how education is delivered, managed, and experienced. Institutions that embrace innovation while addressing issues of accessibility, security, and inclusiveness will be better positioned to prepare learners for the demands of the digital future and contribute effectively to sustainable educational development.

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