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Digital Transformation and the Evolution of Modern Information Technology Systems

DEMO / THEME CONTENT

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Abstract

Digital transformation has become an important component of organizational development and technological innovation. Organizations increasingly use cloud computing, artificial intelligence, data analytics, automation, and digital platforms to improve operational efficiency and service delivery. This paper examines the major components of digital transformation and their influence on modern information technology systems.

Keywords

Digital Transformation; Information Technology; Digital Innovation; Cloud Computing; Information Systems

1. Introduction

Digital technologies have changed the way organizations deliver services, communicate with customers, manage information, and conduct business. Digital transformation involves organizational, technological, and cultural changes supported by digital technologies.

2. Literature Review

Digital transformation has been discussed as a strategic process involving technology and organizational change. Vial (2019) describes transformation as organizational change in response to technological developments. Westerman et al. (2014) emphasize technology capabilities and leadership.

3. Methodology

This paper uses a qualitative conceptual research approach. Literature concerning digital transformation, information systems, cloud computing, and digital innovation was reviewed.

4. Results and Discussion

Technology infrastructure is an important foundation for digital transformation. However, technology alone does not guarantee success. Organizations also require digital skills, leadership, cybersecurity, and effective data governance.

5. Conclusion

Digital transformation is a continuous process. Organizations should combine technology, people, processes, cybersecurity, and leadership. Future research can examine adoption in specific industries and developing economies.

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