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The changing effect of information technology on human life

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ABSTRACT

This paper examines the profound impact of information technology (IT) on human life, examining its pervasive presence in various fields, including communication, education, health, commerce, and entertainment. It highlights the multifaceted importance of IT in connectivity, information dissemination, innovation and empowerment, thereby changing the fabric of modern society. Through a comprehensive examination of key areas, emerging trends, and ethical considerations, this paper seeks to highlight the critical role of information technology in enhancing human empowerment, promoting societal progress, and shaping the future trajectory of human existence in an increasingly interconnected world.

Keywords:

Information technology, information, information flow, society, communication systems, computer.

Information technology is a collection of related fields that include computer systems, software, programming languages, data, data processing, and storage. Information technology (IT) is a part of information and communication technologies (ICT). An IT system—generally an information system, a communication system, or more precisely, a computer system, including all hardware, software, and peripherals—is a system managed by a limited group of IT users and an IT project, and typically refers to the commissioning and implementation of an IT system. Although humans have been storing, retrieving, manipulating, and communicating information since the earliest writing systems, the term information technology in its modern sense first appeared in a 1958 Harvard Business Review article; authors Harold J. Leavitt and Thomas L. Whistler “the new technology does not yet have a single clear name. We call it information technology (IT),” they commented. Their definition falls into three categories: processing techniques, the application of statistical and mathematical methods to decision-making, and the simulation of higher-

level thinking through computer programs also covers Several products or services within the economy are related to information technology, including computer hardware, software, electronics, semiconductors, the Internet, telecommunications equipment, and electronic commerce.

The introduction sets the stage for a comprehensive study of the transformative impact of information technology on human life, highlighting the ubiquitous integration of IT into everyday life and its role as a catalyst for socio-economic development, cultural exchange and global interconnectedness. It highlights the evolution of IT from a revolutionary tool to a fundamental aspect of modern life, spanning various fields of human activity and reshaping the dynamics of society.

Contact and connection:

This unit highlights the critical role of information technology in revolutionizing communication and connectivity, including the evolution of digital communication platforms, social media networks, instant messaging, video

conferencing, and mobile technology. He explores the transformative impact of IT on interpersonal interactions, cross-cultural exchange, and the democratization of information flows, emphasizing its potential to bridge geographic distances and foster virtual communities.

Education and dissemination of knowledge:

The article examines the transformative impact of IT in education and knowledge dissemination, highlighting the proliferation of e-learning platforms, digital libraries, multimedia resources, and interactive learning tools. It highlights the democratization of access to educational resources, IT-enabled personalized learning experiences, and the potential for global collaboration and knowledge sharing, thereby promoting lifelong learning and skills development.

Advances in Healthcare and Biotechnology:

This segment explores the convergence of information technology and healthcare, highlighting its role in medical informatics, telemedicine, electronic health records, bioinformatics, and personalized medicine. He discusses the transformative potential of IT to improve health care, disease management, diagnostic accuracy, and biomedical research, resulting in improved patient outcomes, preventive care, and the advancement of biotechnological innovation.

Trade and the digital economy:

The article examines the pervasive impact of IT on the emergence of the digital economy, including e-commerce platforms, fintech solutions, digital payments, supply chain management, and data-driven analytics. It explores the transformative dynamics of IT in changing consumer behavior, market dynamics and business models, driving entrepreneurship, innovation and global trade, thereby shaping the modern landscape of economic activity.

Ethical and social considerations:

This section examines the ethical and social implications of the widespread integration of information technology, including issues of privacy, data security, the digital divide, the ethical use of AI and automation, and the impact of IT on social structures and individual well-being. It emphasizes the importance of ethical

governance, digital literacy, and equitable use of IT resources, while promoting responsible innovation and ethical use of technology to improve societal well-being.

Emerging trends and future prospects:

The article explores emerging trends and future prospects in information technology, including the impact of artificial intelligence, the Internet of Things (IoT), blockchain, quantum computing, augmented reality, and technological convergence. It highlights the transformative potential of these emerging trends in redefining human experience, industrial landscapes and global connectivity, while recognizing the need for ethical and sustainable integration of innovative technologies

Conclusion:

The conclusion brings together key concepts and highlights the transformative impact of information technology on human life, highlighting its role as a catalyst for interconnectedness, empowerment and societal development, while also promoting information governance, digital literacy and access to information recognizes the need for ethical considerations the full potential of IT for the betterment of humanity.

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