

Evaluation of Electronic Technologies and Mitigation of E-Service Risk in the Digital Era

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Abstract

Electronics technology can be considered as the application of several scientific theories including numerous principles in the production, testing, design, installation, utilization, and services. In addition, these electronics technologies can also be recognized as the application of controlling electrical parts along with those electronic parts, systems and several equipment. Electronic technologies are utilized across numerous industries, organizations that are basically residential, industrial and commercial. In recent days, electronic technologies are universally utilized in telecommunications, computers including that signal processing and employing oriented integrated circuits with the support of several transistors upon an individual chip. In this study particularly for this purpose technology and strategy implementation method has been selected as this method helps in knowing suitable paths of utilizing electronics devices effectively in daily life. The selected technology for this purpose is Information technology (IT) and this technology helps in facilitating any organizational work.

Keywords

Electronic technologies, Information technology (IT), technology and strategy implementation, telecommunications.

INTRODUCTION

In several organizations and sectors utilization of these electronic technologies are increasing day by day and these electronic technologies have helped in facilitating several difficult tasks in less time. Electronic technologies might motivate cognitive learning including that of analytical skill-oriented development. Utilizing several electronic devices in recent days might in turn support children to enhance their innovative thinking along with those investigation skills, creativity and their strategic thinking. As it is obvious that computers can be recognized as an electronic technology and usage of computers might enhance manual dexterity including that support in building computer-oriented literacy. Though there is numerous E services associated risks have been increased and, in this study, evaluation of these electronic technologies and mitigation of E-service oriented risks will be discussed critically.

IMPORTANCE OF ELECTRONICS TECHNOLOGIES

In economies, it can be vastly acknowledged that technologies can be recognized as the key driver of a country's economic growth. Technology oriented progress provides an allowance regarding the more efficient, effective production of better services including goods, in all these factors prosperity and productivity depends upon [10]. Electronics technologies or other devices are an integral part of human beings' daily life style and it has continuously become more difficult for people to do numerous necessary works without utilizing the electronic technologies [2]. Currently, people live in that kind of generation that utilizes technologies including electronics where artificial intelligence as well as robots have the capability of doing

human oriented work with enhanced efficiency including that ease. The importance of several electronic technologies in recent days lies across the society's fibres. Digital and electronic technologies both have transformed many aspects of human being's modern lifestyles.

Electronic technologies are mainly fast and more convenient and electronic technologies help in enabling the public to keep in connection at all timings and also might invade privacy along with that cut into affordable relaxation time. Daily life of human beings is currently more as well as more convenient including that pleasant since several of the work-oriented tasks might be done more effectively with the support of electronic technologies. These electronic technologies that facilitate people's daily life are known as the internet along with smartphones and moreover, few difficult working tasks might even be executed totally through robots [5]. In addition, with the support of the progress of technology and the economic development, electronic technologies are widely popularized in the public's life as well as production.

This also brings greater convenience to several lives of people-oriented production along with that life. The vast popularity of electronic technologies has created public utilization of the way of letters in becoming more convenient paths of communication with the support of mobile phones, digital chat software or telephones [4]. Numerous organizations are currently utilizing vast networking processes through the support of electronic technologies and the organizations can build use of these networks in terms of negotiating business as well as filing the transmission. Technology can be considered as inevitable in human being's everyday lives and this is mainly because human life without using electronic technology is baseless in the dynamic world of current days. Electronic technologies that bring several tools in terms of promoting development, usage along with

that information exchange, have as its major objective of creating tasks more easily along with solving numerous issues of mankind.

BENEFITS OF UTILIZING ELECTRONICS TECHNOLOGIES

Electronic technologies might assist in enhancing listening, innovative and listening skills in a human being's daily life. Electronics technologies in current days have increasingly transformed and enhanced the modern lifestyle of human beings through adding innumerable advantages to it. In recent days human beings naturally carry smartphones as an electronic technology, that all signifies are a miniature version of an ancient age computer, a storing device, and a camera with extra added artificial intelligence as well as comfort [11]. Modern electronic technologies have critically transformed human lives tremendously, putting a greater impact upon the path that public utilized to travel, shop, entertain or else communicate.



Figure 1: Advantages of utilizing electronic technologies (Source: SHATRI, 2020)

Electronic technologies or other devices reflect that device might be faster, compact, lighter including that all these are more versatile. Massive estimation of knowledge might be easier to store remotely as well as locally along with that shifted around virtually instantly. Electronic communication associated technology creates it easier in staying all the time in touch with family, friends and working remotely, in case someone is still in the other portion of the world. Electronic technologies make human life easier to live and people can be able to express their words through the support of electronic devices and with the help of exchanging worlds in video, or else audio.

The nature of versatile working has been converted through electronic technologies. Enhanced connectivity-oriented options signify that numerous publics currently have far more advantages and opportunities in

terms of indulging in work from home, because remote working is becoming a more common factor [8]. Utilization of electronic technologies have numerous advantages such as automation, better learning opportunities, and gathering knowledge and information through these devices and moreover, technologies support in doing difficult work. Electronic technologies basically as personal computer devices as well as smart phones support human beings to gain information including that knowledge with the support of the internet. The vast development of electronic devices basically as *electric cooker, smart plugs* can be considered as the sources that help in saving time.

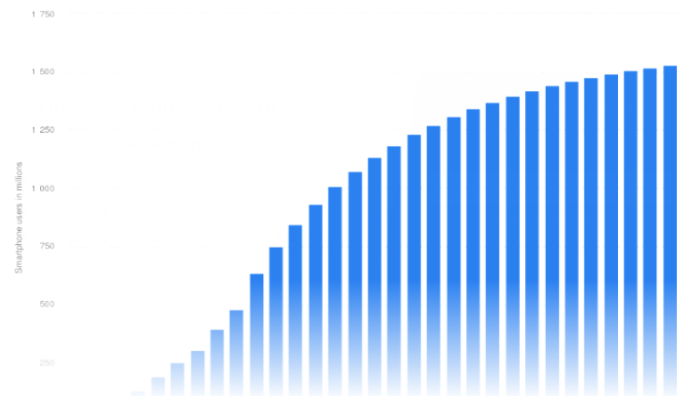


Figure 2: Smartphone user rate in India (Source: Sun, 2021)

The estimation of Smartphone users rate in India was mainly estimated to reach over 748 million in the year of 2020, with the estimation of Smartphone technology users globally having exceeded up to 1.5 billion users rate in the year of 2040 [12]. The estimation of Smartphone technology users' rate globally has been projected to be near about 2.7 billion by the year of 2019. Therefore, it can be stated that in India, human beings' modern life has been transformed into better and more effective after the enhancement of electronic technology usage.

METHOD

Before implementing electronic technologies in a human being's daily life, it is necessary to observe and execute appropriate and suitable methods for that purpose. In this case, electronic devices have increasingly changed the overall working process and daily life circle of human life and these technologies have facilitated the communication process. In this study particularly for this purpose technology and strategy implementation method has been selected as this method helps in knowing suitable paths of using electronic devices effectively in daily life. In addition, the selected electronic technology is Information technology (IT) and this technology implementation method will help in gaining better understanding about the risks of utilizing IT technology in daily life. Moreover, it also can help to mitigate the risks of using IT technologies in everyday life and therefore, this can clearly be beneficial for numerous people [1]. *Information technology (IT)* can be considered as the

usage of any computer as well as networking. Moreover, other kinds of physical devices, procedures and infrastructure in creating, storing, securing along with that exchanging several forms of this electronic data.

Information technology components and functions



Figure 3: Information Technology
(Source: Bayanov *et al.* 2019)

RESULT

Issues of using electronics technologies in these digital era

From the aforementioned methodology it can be concluded as a result that utilization of IT technology might have several risks that can be faced by human beings at the time of using this electronic technology. Though electronic technology has facilitated the way of living modern life for human beings, still usage of these technologies can have other consequences. The major risk can be data security-oriented risks and a security breach can be considered as the major risk that is related with these informative systems, because it includes threats basically as spyware, password-oriented theft, hacking, viruses, phishing as well as software including hardware failure [6]. Phishing can be recognized as the utilization of fraudulent mails or else phone calling in terms of getting sensitive information basically as banking account numbers, passwords related information.

Utilization of IT technology comprises human error, malicious attack, including natural disasters basically as floods, fires and cyclones. Someone can maintain IT system-oriented risks through executing business-oriented risk assessment. Gaining a business continuity strategy, can support business-oriented recovery regarding an IT incident. Pretexting usage includes the creativity of a fraud identity or else scenario in fooling someone in disclosing such important information. In addition, not meticulously selected employee passwords might enhance the organization's exposure towards the security related risks. In case someone or any organization is utilizing IT technology then hardware as well as software related risks can occur. In any case if the hardware fails then the organization can encounter risks of data loss and data loss can cause productivity loss of that company.

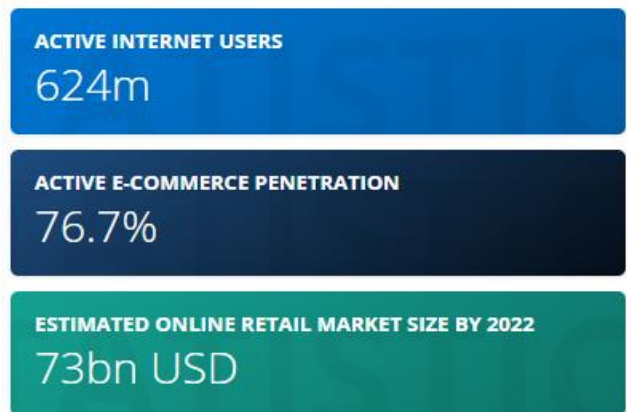


Figure 4: Internet including online infrastructure of India
(Source: Keelery, 2021)

In India several organizations and people are increasingly using electronic devices therefore, internet user's rate is also increasing. With the support of exponential enhancement of the internet as well as digital infrastructure in India, it is obvious that the Indian E-commerce market has encountered an equal boost [7]. The active internet user's rate in India was **624m** and E-commerce penetration rate was **76.7%** in the year of 2021.

DISCUSSION

Mitigation of E-service related risks in the digital era

Threats along with those risks to the aforementioned information technology (IT) related systems including that data are in regular day reality regarding most of the modern business. In recent days, in human life and in several organizations E-service oriented risks are continuously increasing and people need to take certain measures in terms of enhancing IT security to mitigate fraud cases. Before utilizing electronic technologies, it is necessary for people to secure their computers, wireless networks as well as their servers [3]. In addition, it is also required to utilize anti-virus, firewalls along with that usage of protection related to anti spyware and another most important necessity is to secure one's own passwords before using IT technologies. In an organization it is necessary to hire efficient staff that have enough knowledge about mitigating IT technology risks and they need to safely handle several infected mails and also should protect the consumer detail-oriented privacy. Moreover, hardware as well as software failure risks in utilization of this technology can be mitigated through turning off electronic devices and unplugging computers at the time of storms. In addition, implementing processes upon downloading files through organization devices can also support reducing hardware failures. In the end, it can be concluded that utilization of IT technologies in daily life or in organization can make difficult work easier [9]. Utilization of electronic technology in an organization can generate more productivity, employee efficiency; including that IT technology can enhance business growth.

CONCLUSION

Electronic technologies might assist in improving innovative, active listening and cognitive skills in a human's daily life. Electronic technologies in recent days have vastly transformed and enhanced the modern lifestyle of human beings by adding innumerable benefits to it. Usage of electronic technologies have several advantages, basically as automation, better learning outcomes, including that gathering knowledge, information by these devices and moreover, technologies support in doing difficult work. The estimation of smartphone user's ratio in India was mainly estimated to reach over 748 million in the year of 2020, with the estimation of smartphone technology users globally having exceeded up to 1.5 billion users rate in the year of 2040.

at:<https://www.statista.com/statistics/467163/forecast-of-smartphone-users-in-india/> [Accessed on: 8th January, 2021]

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