Is IT's influence evolving or eroding?

Abstract

History has witnessed that humanity went through several revolutions. Recent advancement in Information Technology have transformed every facet of human life and revolutionised the world as never before witnessed in known human history. This revolution caused a rupture between everything that is old; what is considered new today is quickly turned into an old and obsolete trend tomorrow. Because of these evolutions, the demand for this technology has increased. Therefore, the latter has become the most important used resource compared to classical resources, which has led to the amplification of interest in new information and communication technologies by both companies and individuals.

No one can doubt that information technology is a fundamental and innovative revolution that has touched human life considerably in the last century. Indeed, far from being an effervescent phenomenon, or a passing trend, information and communication technology has just been exploited in all aspects of life. No domain has remained immune to this policy, which facilitates tasks for both the company and the staff.

So, in this article we will look into the different aspects upon which Information Technology has its huge influence and finally, summarize it by getting a brief idea on whether IT is going to evolve or erode in the upcoming years.

Influence of Information Technology in the 21st century

Definition

Information technology, widely known under its abbreviation (IT), is defined as "the Information activity of using computers and other electronic equipment to store and send information.

"Many areas of public health, including vital statistics, investigation and research, surveillance, epidemiology, surveys, laboratories technology, maternal and child health, and environmental health, use information technology (IT) to achieve their goals and objectives. IT includes the use of computers and communications, and the transformation of data into information and knowledge".

"Most modern businesses depend heavily on information systems, from employee e-mail to database management to e-commerce Web sites. Hospitals have large patient databases to maintain. Universities have sprawling networks to administer. Even a small, home-based cookie business needs an order-tracking system. The Information Technology Association of America reports that 92 percent of IT professionals work for non-IT companies".
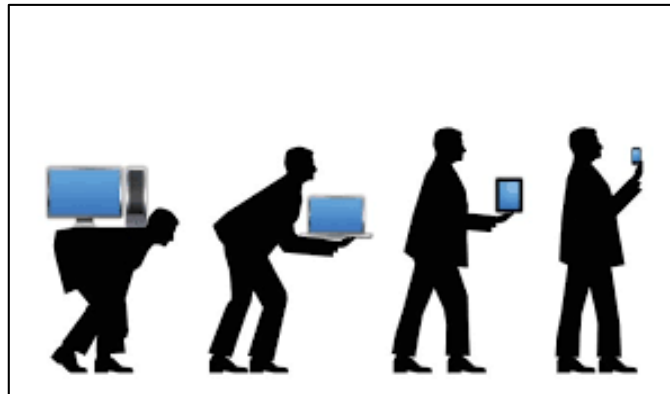

So, it's very obvious may think that robotics and AI will only affect the largest, most international industries. But we are just wrong. Every single commercial sector will indeed experience changes in the near future and so thanks to advancing technology. In fact, it's even been predicted that 'cow-milking robots' will be introduced on a farm in the U.S., a system which allows cows to be milked on their own. So yes, even the most traditional and hands-on farming methods will be affected.

Influence of information technologies

We live in a world where technology is evolving and advancing faster than we are as humans.

Exciting? Definitely…. Scary? I think so a bit.

We know we're in for a future of rapid growth, but how can we measure exactly the kind of digital world we'll experience in 20 years? We can't. We can only predict. And predictions show that the development of robotics and artificial intelligence (AI) will be the most interruptive technological movement since the Industrial Revolution.
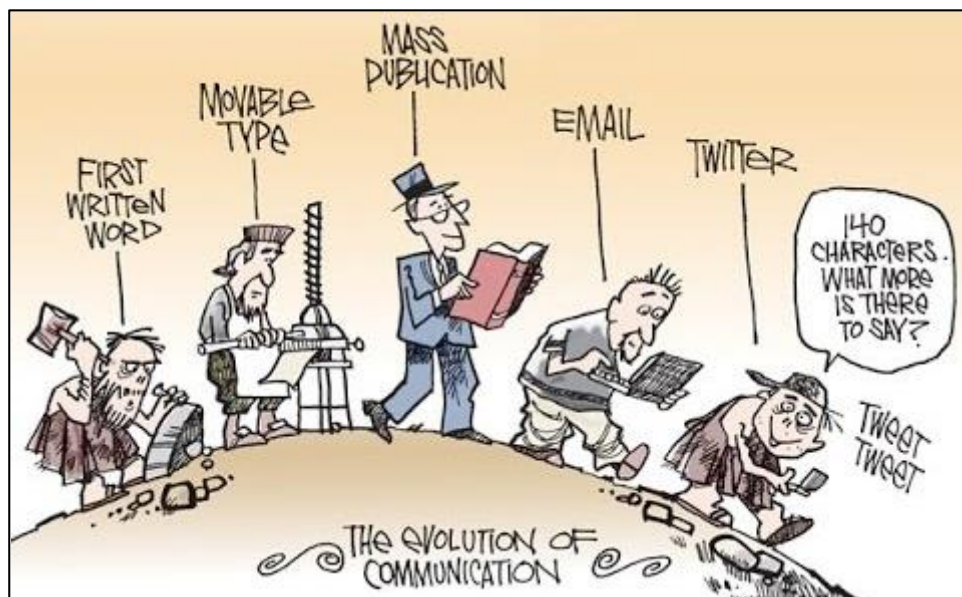

In brief, we can be well-versed that in no way the field of Information Technology is never going to erode or disappear rather the IT department's role has evolved to ensure each technology is deployed properly, stays up and running, is protected against threats, stays up to date and works well with the plethora of other tools across the business.

- As new technologies appear, IT is uniquely positioned to help drive a company's innovation and growth. Continuing to use IT as a shared service across the business delivers cost advantages, consistency and interoperability, and offers a level of unmatched technical expertise.

- Sitting in India, one can well be taught by a professor delivering lecture in USA and can also put questions with the help of technologically advanced devices.

- To keep up with the advancing digital trend, humans are creating truly unheard of technology, such as the uniquely innovative Micro headphones. Their built-in sensor, based on Neuro marketing, can

detect brain waves and play music that best suits our current mood. So basically, technology is more aware of your subconscious than we are.

- The mindboggling advancement in the field of communication have brought the whole world into a small room. The network of satellites and computer network, internet, have decimated all the geographical barriers and brought the world so close that one can communicate with a person sitting millions of miles away through video conferencing as if interacting face to face.

- Medicine of the future will be completely preventive, NOT curative. How?! Well, technology will soon be able to predict exactly what happened to us, the cause of disease and finally, prescribe us the required medicines. Hardly the role of any doctors or nurses will come into play.

- A very important aspect of advancement in the field of information technology is the capacity of analytical reasoning and removal of various orthodoxical and superstitious beliefs thus enlightening the common people to upgrade themselves with the latest technologies.

Every new invention has its merits and demerits. No invention is all a blessing or a curse. It is its use which may make it a blessing or a curse.

- Information Technology has given man power fit for God yet, foolishly, in account of his fickle mind and lust for becoming almighty, he has put the world at the threshold of ruin.

- The Information technology has done wonders through invention of warheads, nuclear and atomic weapons, space warships thus putting all the world at a ruinous peril. A switch can destroy the whole world.

- We had seen the devastation and destruction caused by the atomic bombs in Hiroshima and Nagashika and now there are more scientific, more accurate warheads available that can destroy the whole world within an hour.

- The invention of chemical and biological weapons has also jeopardized the whole civilization that may put the humanity in danger of incurable diseases.

- The rapid process in genetic engineering can make it possible to develop clones of human beings and the disastrous effects of such an invention can ruin every fabric of morality, ethics and the civilization.

- There's a growing concern that robotics will replace human intelligence and as a result, we'll lose our jobs. It's a fact we can't deny. Commonly referred to as 'technological unemployment', technology is thought to be removing more jobs than it creates. Indeed, whilst humans are still needed to create the software and initiate the process

that drives robots, this will soon be a task of the past. AI systems will no doubt be able to operate by themselves.

- As a result of these developing robotics, the World Economic Forum has estimated that as many as 5 million jobs will be lost across 15 developed nations by 2020.

- The fast development in Information technology has put the balance of nature in great danger. The present day, air, water and noise pollution, the gradual global warming, has put the existence of world at stake.

- With rapid industrialisation, particularly in developed countries, has resulted into imbalance in the ratio of carbon-dioxide and oxygen in the environment. As per the report of Hadley Centre UK, by 2050 the trees and soils will start falling and perishing due to global warming if no corrective measures are taken.

- The man has lost peace of mind, the inner satisfaction, the value of ethics owing to newer and newer advancement in Information Technology. What purpose all the material and physical prosperity serve if we have no peace of mind, no inner satisfaction.

From the above explanations, we can very well conclude that IT is such a topic which is never going erode from this world at least till human exists but a huge fact lies here once we read the cons of influence of IT in our society.

We cannot ignore or slow down the advancement of technology. And when we can't beat something, it's better to join it and cope up.
As individuals are fully immersed in a digital world, we need to accept that our professional roles will inevitably change in the future. Therefore, we must adapt ourselves accordingly. But how exactly?

- By developing the perceptive and cognitive skills that neither machines nor software can emulate, such as logic, creativity and common sense.
- Also, as great as technology may be, it will never be able to socialize quite like we do.
- Sound communication skills will certainly never go amiss in the workplace.
- And let's not forget problem-solving skills – absolutely vital to be able to identify and solve technology problems that will undoubtedly arise.
- We will need to develop, at the very least basic but ideally advanced, ICT skills to efficiently manage digital technology.

- As it stands, over 40% of workers using software everyday lack the basic skills required to use it effectively. This needs to change ASAP.

Conclusion

Information Technology is the basic requirement of today's world. Technological progress is entering into all fields. Education was a big and important part of development and progress.

Information technology has changed human life radically, and not necessarily, all of the changes are positive. Some may be negative and have a detrimental effect on the individual and the community. For example, traffickers use the Internet to offer and promote their products for sale.

There are many means of technology, including what serves science, education and economy. There is a close relationship between Information technology. It is noted that the basis of technology is to study Information employ (IT) inventions in the different life's areas, in order to meet the needs of the individuals and the societies. Therefore, it connects the governments, companies and societies to develop strategies to enhance the lifestyle quality of the citizens.

We cannot sugar-coat the situation – those who refuse to develop the necessary digital skills may lose their jobs in the future. All in all, we've established that the technological fantasies we saw just a few decades ago in movies, such as Star Wars, have already started to exist in reality. And the margin between what we see in fictional movies vs reality is becoming smaller and smaller. So prepare yourself to encounter the new technology you've already seen in your favourite Sci-Fi movies. And don't forget: a professional who doesn't move forward always takes a step back. Be ready. Don't let this be you. Start the technology training today and ensure your digital awareness.