



Contribution of Technology in this Era

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Technology is important because it is used in all areas of life. When you contemplate your daily routine and count all the technology gadgets you consume in just one day, you will realize how important technology is when you use mobile, watch TV, drive a car, and use a computer or any electrical machine.

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INTRODUCTION

Technology is defined as a comprehensive process based on the application of science and knowledge in many areas of life in an orderly and thoughtful manner in order to achieve the important and valuable purposes for individuals and communities. The advent of modern technology brought about great changes in our modern life. Before technology, man did not know many modern means in his life but relied on simple primitive tools in everything.

IMPORTANCE OF TECHNOLOGY IN VARIOUS FIELDS ROLE OF TECHNOLOGY IN EDUCATION

In today's time, technology has become a part and parcel of our lives. From smart TV, washing machines, laptops to smartphones, we are accustomed to all types of gadgets powered by technology.

New technologies roll out in the market regularly and make our lives better with every passing day. Technology has its application in every field and especially in the education sector.

NEED OF TECHNOLOGY IN CLASSROOMS

- It is the best way to understand the diversity in learning styles.
- It encourages collaboration and enables classmates to interact more with each other.
- Technologies help teachers to prepare their students to face the real world.
- It enables students to access up-to-date information in a quicker and easier way.
- Classroom technology has transformed teachers into encouragers, advisers and coaches.

Why Technology is important in Education:

Students can easily access all kinds of information very easily from Google. Various platforms are there especially for providing knowledge to the students. Such as Biju's, Vedantu, Whitehat Jr &, etc. Students can also make their websites by taking the best hosting from various sources.

Reasons show the importance of technology in the education system.

1. Help to improve the learning experience.
2. It helps to improve the relationship between students and teachers digitally.
3. Students can learn new things with help of it.
4. Helps to increase the knowledge retention rate.
5. It helps to keep students engaged with education.

Why Technology is important in Business & Industry:

There is some reason which shows technology is so important in business. It brings the latest machine and robot, which reduces labor work with greater efficiency. So it increases the profit of that organization.

1. It is used to make business more efficient.
2. Making business well organized.
3. All business processes are tracked well with the help of tech.
4. It helps in business security.
5. Transparent communication in business processes.

IMPORTANCE OF TECHNOLOGY IN COMMUNICATION SYSTEM :

Before a few decades ago, there is no platform available for communicating with a person who is far away from you. You can send a message via post & it takes much time to convey your message.

But now the time has changed. If we have looked in business, personal or cultural life, communication plays an important role. Because it connects two distinct peoples who are far away from you.

ROLE OF TECHNOLOGY IN PANDEMICS

Pandemics leave a tremendous effect in our lives both socially and economically. Over the past hundred years, world has seen quite some deadly pandemics. Although, COVID-19 is the newest of its kind but relating to the past pandemics and how people benefited at that time by technology can be a great guide in current scenario.

How technology has impacted our lives in pandemics:

Drones, robots, and AVs technology not only ensure minimum human interaction but also can be beneficial to access contagious COVID-19 patients. Wearables, making

use of the Bluetooth and GPS technology, is another efficient way to monitor individual's health and their day-to-day stress levels in isolation.

ROLE OF TECHNOLOGY IN GLOBALIZATION

Technology is the vital force in the modern form of business globalization. Technology has revolutionized the global economy and has become a critical competitive strategy. It has globalized the world, which drives all the countries to more ethical standards.

Technology has helped us in overcoming the major hurdles of globalization and international trade such as trade barriers, lack of common ethical standards, transportation costs and delays in information exchange, thereby changing the market place.

ROLE OF TECHNOLOGY IN HEALTHCARE

The adoption of technology in healthcare over the years has led to better diagnosis and treatment of patients. Out of all the benefited sectors from technology adoption, healthcare is probably the most important one.

And what are some groundbreaking medical technologies in healthcare right now?

MEDICAL TECHNOLOGIES

In recent years there have been many groundbreaking advancements in technology in healthcare:

- **3-D printing:** 3-D printing has been around for some years in many fields. When it comes to medicine, it creates implants or even joints for surgery. It is also prevalent in prosthetics as it can create perfect matching limbs allowing extra comfort and mobility.
- **Artificial organs:** Like 3-D printing, but for actual and operational organs, the patient's immune system will not be rejected. Else called bio-printing is an up-and-coming area in technology in healthcare that could save millions of patients every year.
- **Robotic surgery:** Adds control, precision, and flexibility to a surgeon's hands to operate as non-invasively as possible to a patient. It has allowed making certain operations easier or even possible
- **Health wearables:** Began as a fitness tracker to track heart rate and pace, they highlighted healthcare

potential. Health wearables can detect cardiovascular anomalies earlier and prevent severe conditions.

TECHNICISM

Generally, technicism is the belief in the utility of technology for improving human societies. Taken to an extreme, technicism "reflects a fundamental attitude which seeks to control reality, to resolve all problems with the use of scientific technological methods and tools." In other words, human beings will someday be able to master all problems and possibly even control the future using technology. Some, such as Stephen V. Monsma, connect these ideas to the abdication of religion as a higher moral authority.

FUTURE TECHNOLOGY

Some believe that within the next 10 years, humans will discover nanobot technology, while others believe that we are centuries away from its invention. It is believed by futurists that nanobot technology will allow humans to 'manipulate matter at the molecular and atomic scale.' This discovery could pave the way for many scientific and medical advancements, such as curing new diseases, or inventing new, more efficient technology.

EMERGING TECHNOLOGIES

Emerging technologies are the technologies whose development, practical applications, or both are still largely unrealized, such that they are figuratively emerging into prominence from a background of nonexistence or obscurity. These technologies are generally new but also include older technologies that are still relatively undeveloped in potential, such as gene therapy (which dates to circa 1990 but even today still has large undeveloped potential).

EXAMPLES OF EMERGING TECHNOLOGIES NANOTECHNOLOGY

Nanotechnology (sometimes shortened to nanotech) is the manipulation of matter on an atomic, molecular, and supramolecular scale. The earliest widespread description of nanotechnology [referred to the particular technological goal of precisely manipulating atoms and molecules for fabrication of macroscale products, also now referred to as molecular nanotechnology].

ROBOTICS

Robotics is the branch of technology that deals with the design, construction, operation, and application of robots, as well as computer systems for their control, sensory feedback, and information processing. These technologies deal with automated machines that can take the place of humans in dangerous environments or manufacturing processes, or resemble humans in appearance, behavior, and/or cognition.

AI TECHNOLOGY

Artificial intelligence (AI) makes it possible for machines to learn from experience, adjust to new inputs and perform human-like tasks

Why AI technology is important

- AI technology is important because it enables human capabilities in understanding, reasoning, planning, communication and perception to be undertaken by software increasingly effectively, efficiently and at low cost.
- The automation of these abilities creates new opportunities in most business sectors and consumer applications.
- We illustrate how AI can be applied to multiple processes within a business function (human resources).
- General analytical tasks, including finding patterns in data, that have been performed by software for many years can also be performed more effectively using AI.

DRONE TECHNOLOGY

Drone Technology History and Today's Uses

Drones have been around for more than two decades, but their roots date back to World War I when both the U.S. and France worked on developing automatic, unmanned airplanes. But the last few years have been significant in terms of drone adoption, usage expansion across industries, and global awareness. Individuals, commercial entities, and governments have come to realize that drones have multiple uses, which include:

- Thermal sensor drones for search and rescue operations.
- Geographic mapping of inaccessible terrain and locations.
- Building safety inspections.
- Precision crop monitoring.
- Unmanned cargo transport.
- Law enforcement and border control surveillance.
- tracking and forecasting hurricanes and tornadoes.

HISTORY TECHNOLOGY FROM 1800 TO 1945

- On December 17, 1903, Wilbur and Orville Wright in their Flyer I at the Kill Devil Hills in North Carolina achieved sustained, controlled, powered flight, one of the great "firsts" in the history of technology.
- On December 12, 1901, Guglielmo Marconi succeeded in transmitting the first wireless message across the Atlantic.
- The high-compression engine burning heavy-oil fuels, invented by Rudolf Diesel in the 1890s, was developed to serve as a submarine power unit in World War I.
- The transistor was invented by John Bardeen, Walter H. Brattain, and William B. Shockley at Bell

Telephone Laboratories in the United States in 1947.

TECHNOLOGY AWARENESS

Why technology awareness : Technology trend awareness as a skill refers to being mindful of the technology that is recently becoming popular and is readily accepted in the market or industry. It also encompasses one's ability to recognize and understand the usefulness of any such technology for the success. The acceptance of technology can be seen either as an opportunity or as a threat to people and businesses. When young people learn how science and technology work, they can better use their skills for research and entrepreneurship. Either way, the technology trend awareness skills serve as the most important asset.

Why is technology trend awareness important.

Keeping up with the technology trends is imperative. Following are the areas where technology trend awareness skills play their significant role:

- Creating chances for young people.
- Enhancing your business's visibility to the customers.
- Increasing opportunities with new ideas and new ventures.

ADVANTAGES OF TECHNOLOGY

1. Internet and Mobile Technology Has Improved Home- and Work-Life

Thanks to the internet and mobile technologies, we can communicate with anyone in the world and form relationships with people who are some distance away, rather than being limited to people within our physical vicinity.

2. Automation Has Improved Manufacturing Practices

The increased automation of manufacturing and many other jobs, thanks to computers, means greater efficiency, fewer people doing boring, repetitive jobs, and an increase in flexibility regarding work times.

3. Technology Is a Time-Saver

Modern technology saves us lots of time, whether it's our computer regulated cars driving us to work, washing machines to do our laundry, or automated banking to allow us to pay by credit card, use internet banking, or get cash out from the ATM. This extra time allows our society's biggest brains to continue developing more advanced technology

4. Devices and Machines Function More Efficiently

Computer regulation and automation mean that many devices and machines now function much more efficiently and use less power, either because they are working at the most efficient rate, or they automatically switch themselves off when not in use.

DISADVANTAGES OF TECHNOLOGY

1. Humans Are Valued Less

Human beings are less and less valued in the workplace as their roles are replaced by computers. Outsourcing has meant bigger profits for companies, but a decline in wages and conditions and more unemployment for ordinary workers, especially in Western nations.

2. There Is an Overwhelming Amount of Information

We are increasingly becoming overwhelmed by the information overload that modern technology brings, as we are bombarded by irrelevant emails, sales telephone calls, text messages, internet advertising, etc.

3. Technology Causes Environmental Problems

Technology brings all sorts of environmental problems. As well as machines and devices often being made from toxic or non-biodegradable materials, most technologies need a power source, which can often mean an increase in the consumption of electricity and fossil fuels.

4. Complexity

We no longer understand the workings of the devices and machines that we interact with on a daily basis. Fixing a modern car now means interacting with a computer; it is no longer just mechanical.

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