
Technologies Behind Modern Information Systems and Their Benefits

Technology

- The wide of knowledge which deals with the creation and use of technical means and their interrelation with life, society ,and the environment and studies such as engineering ,arts, applied science and information technology.
- The studies, researches or use of systems for storing, retrieving, and sending information.
- When we see into social, its helps you to reach out to people easily interact, and stay connected wherever you are.
- In economical wise it helps you do business more conveniently.

Internet Technology

Internet technology means to devices, software, hardware, and the transmission protocols used to connect computers together, to receive or send data from one device to another within small part or large part(examples LAN(Local area network, MAN (Metropolitan area network, WAN(wide area network ,bridging ,switching, routing, voice and data integration ,dialup connection.

In these 21st century, Technology is widely developing, in that particularly internet gets more developed. Therefore there will be advantages as well as disadvantages in internet technology.

Let's see some real world examples of internet technology,

Information, knowledge and learning

- There are millions of videos on sites like YouTube which explains different type of topics and even online courses

Connectivity, communication, and sharing

- In today technology, you can send an email to anyone in the world and in lesser second it will get delivered, other forms of chat video call are there as well.

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Bills, and shopping

- Online shopping from home itself is the major useful thing nowadays because without visiting a store we can buy.

Banking

- The internet gives you access your bank account to view your balance, make payment and transfer money. Also you can pay your water bill, electricity bill, telephone bill from home itself.

Entertainment

- The internet gives everyone access to an endless supply of entertainment, with access to watch videos, movies and listen to music as well as.

Mobile Technology

This the technology used for cellular communication. It uses a form of platform where by many transmitter have ability to send data at the same time on a single channel .Mobile technology was a mystery two decades ago but now, it has become something of necessity to both rural and urban areas.

It offers a range of benefits, but also comes with risks of business.

Benefits of mobile technology are :

Call

- From anywhere from universe we can connect with anyone at any time. This is the major advantage of mobile technology.

Getting Snap Happy

- Cameras mean that you can take professional quality photos on your mobile

Internet Connectivity

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- Using internet services provided by your network you can send data as well as you can receive data and also voice message , photos ,videos and etc.

Great equipment in order to improve knowledge

- Through your smartphone you can open google, YouTube and Wikipedia which are three informative so that it will be useful to students as well as can get good material for studying purpose.

Global Positioning System(GPS)

The global positioning system is a satellite-based navigation system consisting of a network of 24 orbiting satellites that are eleven thousand nautical miles in space and in six different orbit paths.

The GPS satellite are referred to as NAVSTAR satellites. GPS mainly divided into 5 categories such as,

Location-to determine position.

Navigation-Getting from one location to another.

Tracking-Monitoring object or personal movement.

Mapping-creating maps of the world.

Timing-bringing precise timing to the world.

Uses of GPS

- Know where your children are using services from companies like uLOCATE communications
- Keep track of elderly members of your family
- Get emergency road side assistance immediately by pressing a button on your car
- Track your luggage, laptop anything while travelling
- Find a best restaurant near you

Cloud Computing and Virtual environments

Cloud computing is becoming popular as virtualization power, distributed computing with server

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cluster and increase in the availability of broadband internet.

It is outcome of grid computing, utility computing and automatic computing. Cloud is a parallel and distributed computed system which consists of inter connected and virtualized computer which gives one or more unified computing resources

Virtualization in computing is creation of virtual of virtual something such as hardware, software, play form or operating system or a storage or a network device

Advantages of virtualization in cloud computing

- Easily to manage the resources
- Abstracts and isolates the underlying hardware, and networking resources in a single hosting environment

Wireless communication

In the present days, wireless communication system has become an essential part of various types of wireless communication devices, that gives user to communicate in operated areas. There are more devices like mobile phone, GPS, WIFI, tv and wireless computer parts

IR wireless, satellite communication, broadcast radio, microwave, Bluetooth are the different types of communication

Benefits of wireless communications are

- Applications of wireless communication like tv remote controller, wireless power transfer, computer interface devices
- Can transfer both data and information can be transmitted faster and with a high speed
- Less cost for maintenance

Artificial Intelligence (AI)

Artificial intelligence is the creation of intelligent machines that work and react like humans.

Speech recognition, learning, planning, problem solving are some activities of it.

Research with AI is highly technical and specialized. The problem of AI include programming computers of certain traits such as

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Knowledge

Reasoning

Problem solving

Perception

Learning

Planning

Ability to manipulate

Real world examples of AI

Every day we use phone most of the smartphone have virtual personal assistants

Apple phone has SIRI while windows has Cortana

Video Games

Smart cars

Fraud detection

Email or letter asking you if you have made a specific purchase on your credit or debit card

Online Customer support

Many websites offer customers the opportunity to chat with customer support

Security Surveillance

If someone tries to theft anything security alarm rings and give message to particular person.

Payment gateways

A payment is an ecommerce service the processes credit card payments for online. This facilitates transactions by transferring key information between payment portals such as web

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enable devices

Payment gateways fulfill a role in ecommerce transaction process. It analyses and transfer data. Payment gateways authorizes the transfer of funds between buyer and sellers.

Real world examples of it are:

Guaranteed fraud protection mechanisms in place:

With PayPal you can be secure against unauthorized transactions from your account.

Ease of access and use

It has real time payment processing updated service and also you also just needed to give your email and password other information had be already given by you.

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