



THE NEW TECHNO WORLD

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Abstract

IoT is a vast platform that has drastically changed our lives directly or indirectly. Reports show a sudden rise in the use of IoT in daily life. People are more dependent on technology than before. Robots and AI are replacing human work. Why? Because of IoT development and its influence on our daily life. Let us go deeper into the topic.

Keywords: - Following are some keywords to be helpful to read this document.

1)IoT(Internet of Things): -System of networked devices that form a connection to share data.

2)Ecosystem: - A basic level system of data handling and transfer using IoT.

3)Assistant tech: - A tech in which a specific human activity tool works on your digitally interpreted command.

4)Cybersecurity: - A specific security measure system that gives properadaptive security according to the data.

5)Biometrics: - A type of security measure over data in which it uses your face, fingerprints, or eyes to open. It is one of the most prevalent cybersecurity measures.

6)Cloud:- a virtual storage space with a specific data value.

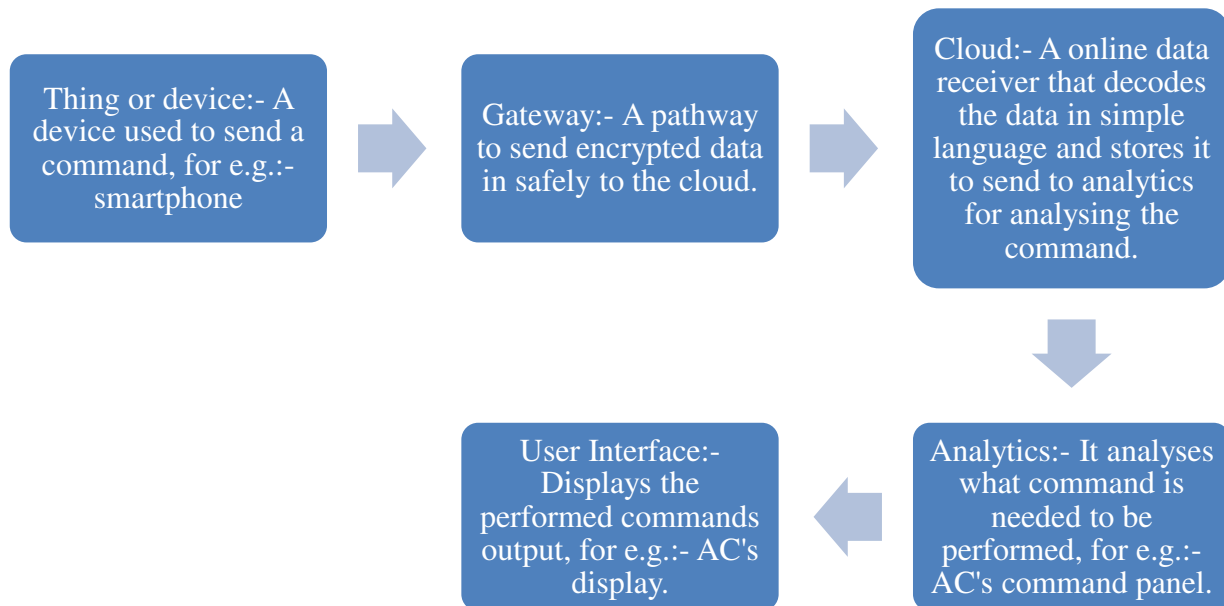
INTRODUCTION

IoT or Internet of things is a system of networked devices that form a connection to share data. The data can be a set of commands, instructions, a message, a money transaction, or a specific information. All of this has changed the world more than any other technology proposed in the world. It has had a drastic change in our lives. I am going explain two main significant things in human life, day to day activities and security.



Theory

On basic level, IoT is an ecosystem that makes sure any type of data that is transferred by anyone is appropriately done. Following a basic diagram of its ecosystem: -



But it does require various things like sensors and to detect the need of the user and the environmental conditions to send a valid command data. It needs actuators to understand the entered command and start the processing of data in the hardware mechanism. Connectivity, which can be through Wi-Fi, Bluetooth, Mobile data, or any other specific authorized network.



Every single device has an RFID sensor (Radio frequency identification sensor) to understand the location to activate the sensors accordingly as it is a metered connection. They even need security measures to make sure the data is encrypted and safe for transfer. This ecosystem is the base to every single command that is processed using this system.

Experimental

Let's research to find people with smart devices.

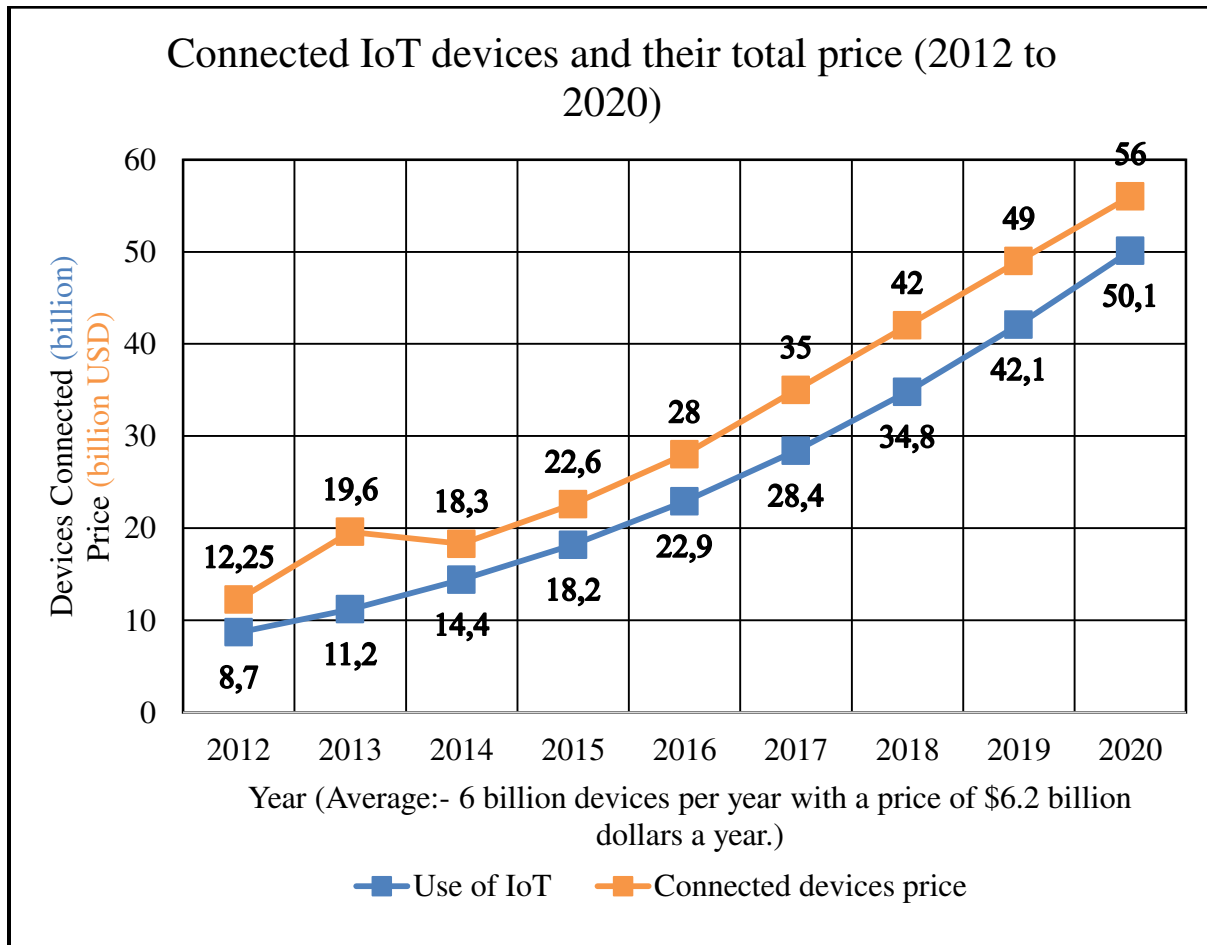
- 1) Make a survey sheet.
- 2) Randomly go to any house in your neighbourhood and ask about any specific appliances, vehicle, device, or any specific personal amenity that is controlled or linked to an app or device.
- 3) Make a proper tally of the number of intel techs they have.
- 4) Count even the smart tech you own.
- 5) Count it and calculate the total.

RESULT

The use of IoT in daily life has increased. From household to devices to cars, everything has become a part of this vast chain of devices. Even statistics show that IoT's use has grown. The reason for the growth it's integration in daily life, and the price of the devices is cheap and affordable. It fast, easy to use and very strictly secured. Every single technological device can be replaced by this big global market's products. Even when results collected you may find that it will be a massive sum of products. The reason is the rapidly growing market of IoT technological developments.

DISCUSSION

The life of human beings has changed by time. The development in this field has raised from a small sum to aenormous amount. Human life has more ease than before. From 2012 there has been a significantboost in this field which has grown in size to another level. The growth is increasing inpopularity over the years. Companies are hiring researchers to make new inventions to move ahead in this never-ending race. While companies like Tesla, Neural ink, Amazon, LG, Godrej, Haier, and various other companies. Even statistics claim that the growth has occurred and has happened with a great leap. Following is the statistics.



The trend is going up, so we can say that there is growth in its market. Even other statistics show that there is more growth to come and more devices to connect to embrace this technology to its fullest. There is an expectancy that by 2025, there will be 40 billion connected devices. The development rate has increased due to its impact on our daily life. Simply speaking, it is all assistant technology that helps in everyday life. It is a feature that uses your set of commands to do a specific task.

Following are some of the prominent IoT developments that have caused its growth and development to date:-

1)Smart Home:- It is a term that defines the use of third party or inbuilt apps to control various software integrated utilities in your house. This can include your any appliances, vehicles, and devices, thus makes your life much easier than before.

2)Cybersecurity:- As earlier mentioned, it is crucial to keep your device or data secured. Cybersecurity means security for a device. As there are multiple devices linked together, there can be chances that your data can be at risk. So thus, there are numerous ways to save it. These options include Biometrics(security measure that uses your face, your eyes, or your fingerprint), Pins and Passcodes(alphanumeric keys) and Data encryption(securing the data as a complex code so that no one can hack it.). The most popular of all is Biometrics as it is complex and well encrypted and only a specific registered fingerprint, eye pattern or face can be used to unlock it.



3)Mass digital connectivity:- The entire world is connected in this vast chain, thus making data transfer easy and efficient. People nowadays can transfer documents, cash, videos, photos, messages etc., all over the world. You are one fingertip away from sending any data to anyone. The growth is due to the increasing dependency of humans on machines. Today's human has faith in devices to do a job. But the plus point is that devices with highly advanced technology inside them are much better at doing jobs beyond imagination of human brain. They can help, serve, protect, care, and even fight for us. If every single person wants to live happily, you can put your faith in a machine.

CONCLUSION

To conclude, IoT is a platform of mass development and there is no limit over its development. Soon we will see a lot more astonishing growth in this field that may ultimately alter the life we live today and may even give a start to a new technological era, starting a never-ending chain of development that no human has ever imagined from any technological development.

ACKNOWLEDGEMENTS

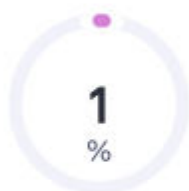
Research is a bridge between theoretical and practical working. And I would like to thank my institution for giving me this opportunity and my teachers for their constant encouragement, motivation, support, and guidance that helped me to submit my paper on time. And of course, my family, my pillar of strength and the reason why I keep pushing and can face all the struggles, pain and hardships with a smile on my face. I would like to thank all of them for their support and encouragement. Finally, I would like to thank the organizers of the event, who have given us an opportunity to build our knowledge and skills.

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