**A Paper Presentation**

**On**

**“ INTERNET OF THINGS - DETAILS”**

**Submitted**

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**Internet of Things – Details**

**ABOUT IOT**

Connecting all electronic devices together for transmiting the data by smart watch, smart mobil, this network is called as “IOT”.

By wifi it will connect all things.

The IOT is the network of physical devices, vehicles, home applications and other items embedded with electronics, soft ware, sensors, actuators and connectivity with the object to exchange data. Each thing can be identified by its inter operate within the existing internet infrastructure .

All kinds of every day objects are connected to internet including car , locks , even shoes.....etc

**EXAMPLE**

Car connected by sensors so it will inform us related to all parts of car.

**ABOUT IOT IN DETAIL**

Internet is one of the greatest innovations of mankind which along with digitalization has enabled storage and transfer of huge volumes of informations within fraction of seconds . people are now connected like never before .

The internet of things refers to the inter related devices that are able to transfer data over a network without requiring computer and human interaction devices .IOT is directly and indirectly associated with daily life style products across the globle.

Simply, IOT is the concept of basically connected an on and off switch to the internet. This includes everything from cell phones ,coffee makers ,washing machines ,headphones ,lamps and almost anything else you can think of.

**HOW DOES IT WORK?**

IOT enable big data. the IOT consist of all the web enabled devices that collects ,send and act on data they acquire from this surrounding environments using embedded sensors ,processors hardware.

**IOT IN FUTURE**

The IOT is growing at a significant pace as consumers, businesses ,and governments are recognizing the benefits of connecting inert devices to the internet.

1.Experts estimate that the IOT will consist of about 30 billion objects by 2020.It is also estimated that global market value of IOT will reach $7.1 trillion by 2020.

2. Machines which have never been networked are coming online .

3. Hackers will continue to use IOT devices to facilitate DDOS attacks.

4 More cities will”.

5.Artificial intelligence will really become “smart become a “thing”.

6. Routers will become more secure and “smarter”.

**ADVANTAGES**

1. Adds safety through appliance and lighting control.
2. Secures home through automated door locks.
3. development activities are all focused on providing comfort to the people
4. Increases convenience through temperature adjustment.
5. It saves our time by reducing our work.
6. Increases peace of mind.
7. Research becomes easy by IOT.

**DISADVANTEGES**

1. Technology takes control of life.
2. Loss of privacy and security.
3. The system itself a “complex” one.
4. Compatibility and integration.
5. Threat to security.

**SCENARIOS**

Imagine a scenario when your fridge can identify that you have run out of milk.

Yours alarm rings at 06:30 am and you wake up and switch off . as soon as you switch off your alarm, it conveys to the geyser to hate water at a temperature you prefer and also the coffee makers starts brewing coffee!

You are on your way while returning home from work and you use app on your mobile to switch on the light , so that your house is ready to welcome to before even open your door.

**IOT APPLICATION**

1. Smart home
2. Smart city
3. Smart devices
4. Smart industry

**WHAT IT IS USED FOR?**

To connect any device with an on and off switch to the internet and or to each other.

* Lamps
* Headphones
* Cell phones
* Coffee makers
* Washing machines
* Wearable devices

And almost anything else you can think OF.

**BIG DATA AND IOT**

There are roughly three distinct stages for the IOT.

* First, data is collected using sensors.
* At the next step , this data is analysed with the help of complex algorithms that were embedded into the IOT device or cloud based data processing.

If the information collected is quite larger complex that is become difficult to analyse using traditional data-processing techniques ,we call it “BIG DATA”. results made from this analysis are then transmitted to the actuator system ,where the decision is implemented

**CONCLUSION**

1.The IOT brings into a new area in which everything can be identified and connected.

2.Things can exchange and make decisions by themselves.

3. Peoples life can benefited from the IOT.

4. Things will be the main traffic makers.

5. Many applications lead to ethical debates.

6. IOT things will turn web of things and will impact every aspect of our life.

**REFERENCES**

1.www.google.com