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Report

→ The internet of things, or IOT, is a system of interrelated computing devices. mechanical & digital machines, objects, animals or people that are provided with unique identifiers (UIDs) & the ability to transfer data over a network without requiring human to human or human to computer interaction

A thing in the internet of things can be a person with a heart monitor implant, a farm animal with a biochip transponder, an automobile that has built in sensors to alert the driver when tire pressure is low or any other natural or man made object that can be assigned an Internet protocol (IP) address & is able to transfer data over a network.

Increasingly, organizations in a variety of industries are using IOT to operate more efficiently, better understand customers to deliver enhanced customer service, improve decision making & increase the value of the business.

→ How IOT internet works

An IOT ecosystem consists of web-enabled smart devices that use embedded systems, such as processors, sensors & communication hardware, to collect, send & act on data they acquire from their environments. IOT devices shares the sensor data they collect by connecting to an IOT gateway or other edge device where data is either sent

to the cloud to be analyzed or analyzed locally. Sometimes these devices communicate with other related devices & act on the information they get from one another. The devices do most of the work without human intervention, although people can interact with the devices – for instance, to set them up, give them instructions or access the data.

The connectivity, networking & communication protocols used with these web-enabled devices largely depend on the specific IoT applications deployed.

IoT can also make use of artificial intelligence (AI) & machine learning to aid in making data collecting processes easier & more dynamic.

The internet of things offers several benefits to organizations. Some benefits are industry-specific & some are applicable across multiple industries. Some of the common benefits of IoT enable businesses to

- monitor their overall business processes
- improve the customer experience (CX);
- save time & money
- enhance employee productivity
- integrate & adapt business models
- make better business decisions; &
- generate more revenue.