

## Role of IOT in Healthcare

**Santosh Badure\***

Aurora's Technological & Research Institute, India, E-mail: santoshbadure13@gmail.com

The Internet of Things (IOT) is an organised setup of hardware embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet.

This setup of various hardwares and softwares networked enables the interaction, collection and exchange of data among them

IOT has empowered healthcare sector to monitor, interact, collect and exchange the data among the various related departments. Tasks such as remote patient monitoring, treatment progress observation, and the housing of vaccines are all capabilities of medical devices with integrated **IoT**.

The special embedded sensor in this IOT devices proves them smart and assist in changing healthcare sector facilitating the better service towards the community.

The article, [The Internet of Things in the healthcare industry](#), published in Deloitte, reveals that "preventable readmissions cost the health care system approximately \$17.5 billion annually." Remote patient monitoring, a crucial benefit of IoT in healthcare, can "save up to \$36 billion globally over the next five years," mentioned in the same article.

Here are few examples of how IOT conncted devices faciliated and eased the consultation, treatment, aiding healthcare.

- Virtual hospitals/wards,
- Wearable biosensors,
- Smart thermometers,
- Glucose monitoring,
- Smart watch monitoring
- Connected inhalers
- Ingestible sensors
- Robotic surgery
- Connected contact lenses



The above image shows the application of internet things in healthcare.

The more works need to be done to improvise the IOT to assure the safe, secure application in healthcare sector.