

Emerging Trends In IoT Adoption Across Industries

by Satya K Vivek | 16 June 2022



The Internet of Things (IoT) is a trend that is pushing the digitalization industry. Digitalization is critical to help companies adapt and stay competitive. The innovations – autonomous manufacturing robots, remote medical devices, power-controlled music, and self-driving cars are possible because of these networks of connected things. According to Ericsson, there are more than 29 billion IoT devices connected to the internet worldwide.

Let's focus on how the emerging IoT trends are changing the future of the digital era.

IoT in the healthcare sector

The healthcare industry is always at the frontline of IoT adoption. IoT covers most active areas of the healthcare sector – telemedicine, the use of cameras in hospitals and healthcare centers, and specialized medical equipment like insulin pumps, oxygen pumps, heart rate monitors, or fitness bands to monitor lifestyle are enabling doctors to understand the health conditions and lifestyles of the patients better. The technology allows medical professionals to diagnose and treat several

patients, thus helping in expanding healthcare facilities to remote regions where physical access to hospitals and doctors is difficult.

IoT in the manufacturing sector:

Manufacturers are gaining a competitive advantage with IoT technology. The role of IoT in the manufacturing industry is no more confined to supervisory control and data acquisition for operating industrial machines. It has gone beyond the boundaries.

The access to a large volume of data enables manufacturers to take timely decisions regarding asset maintenance. The sensor alerts help them check equipment accuracy or remove it from the manufacturing process until repaired. It allows manufacturing companies to improve asset performance and minimize operating costs.

IoT in security management

With the increasing innovation of IoT devices, the risk associated with them is also increasing. IoT devices provide access points to personal networks that can be hacked and exploited by unauthorized users. However, things have started to change. The IoT security tools help avoid breaches, risks, and fix network vulnerabilities. Implementation of blockchain technologies for protecting networks in banks and financial institutions or using cybersecurity tools to address security issues are needs of the hour. This IoT trend is a necessity, not just a requirement.

IoT in the retail sector

It is a fantastic experience when you choose to entrust a robot to be your customer service representative. A robot rolls up to you and intercepts and asking whether you need help to find things. So, if walked into a store searching for a specific sunglass that you have seen online, your smartphone can open a map to show the counter where you can find that sunglass in that store. You walk to that location, try the sunglass, and put it in your bag. IoT technology allows retail companies to manage inventory, optimize the supply chain, reduce operational costs and improve customer experience.

Conclusion

The future of IoT technology will be solely outcome focused. The aim will be to gain a full 360-degree view of the data you require in making better business decision.

