

By Group 1

Amazon Alexa

One example of an IOT is Amazon Alexa; this a smart home device that gives the user access to a variety of tasks and information simply from the device.

Alexa is a virtual assistant that can perform tasks such as locking doors, turning off and on lights, setting temperature, and much more.

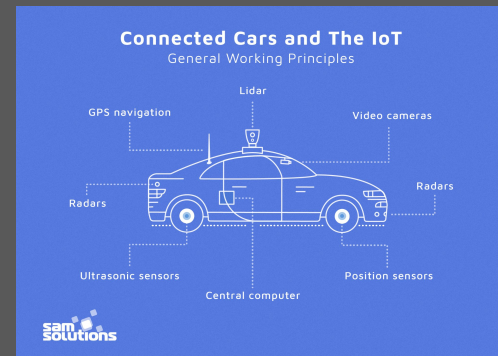
Alexa can mimic real conversations to help assist you with what is requested using smart AI technology and amazon is constantly tweaking and improving commands to better assist you in your daily tasks.



Smart Cars

The internet of things has allowed for the management of car features to be easily accessible and accommodating to human needs.

- Self driving: Speed detection, lane detection, emergency stopping etc.
- Phone application to start and turn off engine, control temperature in car, unlock or lock vehicle Etc.
- Communication between cars to inform over road conditions
- Software updates: for handling features and app improvements



Fitbit



- Wearable technology has changed the way we measure fitness. Today we have affordable technology such as the Fitbit and Apple Watch that can track your steps, monitor your heart rate, and organize your workouts.
- The Fitbit is worn by the user throughout their day, while automatically collecting Data and uploading it to the internet. The user can then easily access this data through their smartphone or computer, and track/manage their fitness goals
- The fitbit app and website has an interface where you can share your data and compare it to other people who shared their data.
- You can also measure diet and nutrition, however that has to manually logged. All the data will be shared wirelessly over the internet

IoT in Healthcare

- A health care provider can use IoT to send prescription updates & changes to a pharmacy
- Alert the patient of the prescriptions
- Send the patient reminders about upcoming appointments or tests
- Blood pressure and Heart rate monitors give patients personalised information
- Wearable devices such as life alerts allow the elderly to live alone, allowing loved ones and health providers to be alerted in case of an emergency



Sindy Morel

Advantages of using IOT

- **Access to low-cost, low-power sensor technology.** Affordable and reliable sensors are making IoT technology possible for more manufacturers.
- **Connectivity.** A host of network protocols for the internet has made it easy to connect sensors to the cloud and to other “things” for efficient data transfer.
- **Cloud computing platforms.** The increase in the availability of cloud platforms enables both businesses and consumers to access the infrastructure they need to scale up without actually having to manage it all.
- **Machine learning and analytics.** With advances in machine learning and analytics, along with access to varied and vast amounts of data stored in the cloud, businesses can gather insights faster and more easily. The emergence of these allied technologies continues to push the boundaries of IoT and the data produced by IoT also feeds these technologies.
- **Conversational artificial intelligence (AI).** Advances in neural networks have brought natural-language processing (NLP) to IoT devices (such as digital personal assistants Alexa, Cortana, and Siri) and made them appealing, affordable, and viable for home use.