

Application of IOT

1. **Connected Car** - Connecting cars to smartphones of users allows them to call their car to their current location as well as keep track of the current location of their car
2. **Smart Home** - In a smart Home all the things we use for our daily lives have tiny embedded chips in them allowing them to do much more than traditional household appliances
3. **Smart City** - This application consists of so many use cases like water management, traffic, and electricity management, waste management, etc.
4. **Precision Farming** - Use of sensors and other smart devices to keep track of health of crop and remove pesticides
5. **Agricultural Drone** - Evaluate field analysis, crop health, crop growth, and pest attack.
6. **Smart Grid** - smart Electrical power systems to ensure load is balanced correctly among its various users
7. **Connected Factories** - A connected network with different tasks like schedule maintenance, the shipment of products, the flow of operation control and stop or pause a specific process.
8. **Smart Retail** - A combination of “things” like RFID chip, foot traffic counter, and Wi-Fi monitoring and mobile application of the customer.
9. **Supply Chain Management by IoT** - Ensures product transportation to the retailer, which increases the efficiency of the supply chain.
10. **Traffic Monitoring System by IoT** - This application can count several vehicles on each side of the road and apply the KNN algorithm to measure the waiting time of each side.
11. **Forest Fire Detection by IoT** - Wireless sensor around the forest detects humidity from air and stores it in the cloud. If humidity is over a threshold system push notification to monitoring authority.
12. **Portable Water Quality Assurance** - The system sends notifications if common parameters include PH, salinity, temperature, turbidity, oxidation-reduction, and so more found one of the above danger levels.
13. **Structural Health Monitoring** - Provide accurate and real-time information about any construction.
14. **Radioactivity Monitoring** - GM counter is a radiation sensor that can detect radiation in an area and send a notification to the cloud.
15. **IoT Controlled Golf Course** - Analyze and visualize the data of the golf course such as soil moisture, humidity, rainfall, temperature
16. **IoT in Packaging Industry** - To preserve a product, the properly accurate temperature is needed. Embedded IoT sensors can change color if the product is beyond temperature.

17. **Landslide Detection by IoT Application** - Data analysis center analyzes data found from the sensor and using proper algorithms they will predict a landslide in an area.

18. **The Volume of Visitors Check by Smart Phone Detection** - This application detects the duration of stay, total project visitors, visitor's volume per location, and so much data of that event.

19. **Waste Management IoT Application** - The system proposes sensors would be connected with each bin. If the amount of waste goes beyond the threshold, each bin will send notifications to the leading cloud program.

20. **Urban Noise Detection** - The IoT solution of this problem is to use of each smartphone as a sensor by embedding noise label detecting mobile apps. Data found from each location will save in the cloud, and a software program will show each zone with a high noise label.