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Recent Trends in Computer Science

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CHAPTER 12
SMART FARMING USING IoT

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1. Introduction

The technological innovation in agricultural area has more efficient in 1990s. The IoT has made the farming to the upcoming level by enhancing agricultural technologies. Smart agriculture is becoming more well- known amongst farmers, and high-tech farming has become more important to agricultural drones and sensors. IoT technology has been used in many areas of agriculture to enhance their growth and production.

IoT for the most part is resourceful, well- organized and significant method used in the incremental process for finding various solutions to the hectic situations that happening in real world. It consists of various components which includes devices for sensing, actuation and monitoring, controllers for controlling the actions among devices and corresponding applications in the device. It can transfer data among networks using network connections. The data can be collected locally or from cloud database based on the level of IoT implementation.

The IoT technologies have become highly resourceful due to following reasons:

1. Connection of devices globally
2. Reduced human intervention
3. High Velocity
4. Less time consumption
5. Efficient Communication

Smart Farming Needs Four Things for Development

There are many smart devices that help to enrich the performance of various farms. However, an IoT application for agricultural development is a critical task.