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IoT Based Smart Agriculture toward Making the Fields Talk

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Abstract: *With the increase of world population, the availability of food to all inhabitants on globe is one of the significant challenges. These challenges need to be addressed by adopting innovative options to improve the soil capacity and the safety of environmental resources. The availability of real-time vital parameters related to farming such as moisture, temperature, weather, and water management as well as predictive actions against the changes in parameters can provide great help to deal with these challenges. Internet of Things (IoT) is an evolving technology, has great potential to play and prevail its miraculous role in almost every field. IoT is a network of things that are capable of self-configuring network. The development of intelligent IoT based Smart farming is day by day getting its space in developed countries. It facilitates towards precision agriculture and turning the face of agriculture production. Subsequently, it is reducing spoilage of resources such as water, operating cost. The availability and development of cost effective smart miniaturized sensors, processors and communication technologies has made IoT based smart farming feasible. In the System deals with better production and cancelling out all factors leading to crop failure and will give best results based on the necessity of the crops, which will help to deal with the requirement and crisis faced during crop productivity.*

Keywords: Node Mcu, Sensor Data, IoT Based Automation, etc.

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