

IOT Based Smart Plant Monitoring System

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Abstract: *Smart agriculture uses the internet of things, usually for irrigation purposes. IoT is employed in this case to manage the water log on fields. The soil moisture sensor is used to keep track of the soil moisture in agricultural areas. The Cloud Service Brokerage issues a directive to the relay telling it to turn ON the suction motor when the moisture level reaches a specific level. The farmland's extra water is removed by the suction motor. With this proposal, we want to use IoT to analyze the availability of micronutrients and control the excess water log in farming. This semi-automated water management system can operate independently or be managed using a smartphone app. The weather at that particular place may be analyzed using the DHT sensor values, and it can be projected using a prediction algorithm for the following 10 days. IoT refers to the idea of linking all gadgets to the internet and enabling internet-based communication between them. The Internet of Things (IoT) is a vast network of interconnected gadgets that collectively gather and share information about their usage and the settings in which they function. IoT is an agricultural use of contemporary information and communication technologies. A system for agricultural monitoring is constructed using sensors*

Keywords: IOT, Humidity, Moisture, Monitoring, Temperature, Motion

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