Problem statement: Smart Farmer- IOT Enabled Smart

**Farming Application** 

**Domain:** Internet Of Things

By,

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## **Literature Survey**

SI.No.	Tittle	Author	Abstract
1	Smart farming	Dweepayan	Agriculture is a substantial source of revenue
-		Mishra, Arzeena	for Indians and has a huge impact on the Indian
		Khan, Rajeev	economy. Crop development is essential for
		Tiwari, Shuchi	enhanced yield and higher-quality delivery. As a
		Upadhaye	result, crop beds with ideal conditions and
			appropriate moisture can have a big influence
			on output. Traditional irrigation systems, such
			as stream flows from one end to the other, are
			usually used. As a result of this delivery, the moisture levels in the fields can alter. A
			designed watering system can help to enhance
			the management of the water system. This
			research proposes a terrain-specific
			programmable water system that will save
			human work while simultaneously improving
			water efficiency and agricultural productivity.
			The setup is made up of an Arduino kit, a
			moisture sensor, and a Wi-Fi module. Data is
			acquired by connecting our experimental
			system to a cloud framework. After then, cloud
			services analyse the data and take the
			necessary actions.
2	Smart farming	G. Sushanth,	Smart agriculture is a novel concept since IoT
	using IOT	and S. Sujatha	sensors can offer information about agricultural
			regions and then act on it based on user input. The purpose of this study is to develop a smart
			agricultural system that utilises cutting-edge
			technologies such as Arduino, Internet of
			Things, and wireless sensor networks. Through
			automation, the research tries to take use of
			emerging technologies such as the Internet of
			Things (IoT) and smart agriculture. The capacity
			to monitor environmental factors is a critical
			component in increasing crop efficiency. The
			purpose of this study is to develop a system
			that can monitor temperature, humidity,
			wetness, and even the movement of animals
			that might damage crops in agricultural areas
			using sensors, and then send an SMS
			notification as well as a notification on the app
			developed for the same to the farmer's
			smartphone via Wi-Fi/3G/4G if there is a discrepancy. The system uses a duplex
			communication link based on a cellular Internet
			interface, which allows data inspection and
			irrigation schedule to be changed using an
			android app. Because of its energy
			independence and inexpensive cost, the gadget
			has the potential to be useful in water-scarce,
			geographically isolated areas.

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3	Smart agriculture monitoring and control using IOT	Vaishali S, Suraj S, Vignesh G, Dhivya S and Udhayakumar S	From the beginning of time, agriculture has been the most important practise in human society. Traditional irrigation methods, such overhead sprinklers and flood irrigation, are inefficient. They waste a lot of water and may even make people sick by causing fungus growth in the soil due to too much moisture. Due to the scarcity of water, an automated irrigation system is essential for water conservation and, as a result, agricultural profitability. Irrigation consumes around 85% of the world's total accessible water resources. This need is projected to increase in the coming years as the population grows. To meet this need, we must employ creative methods that lower the quantity of water utilised in irrigation. Sensors in the automated system monitor the availability of water to the crops, and watering is done as needed through controlled irrigation. Because of its practically limitless storage and processing capabilities, as well as its fast flexibility, cloud computing is an intriguing solution to the massive amount of data generated. The objective is to focus on factors like as temperature and soil moisture. This is a mobile integrated and smart irrigation system based on an Internet of Things-enabled application-controlled monitoring system. The main purpose of this project is to regulate the water supply and monitor the plants using a Smartphone.
4	Smart farming	Hamza BENYEZZA,Mou nir BOUHEDDA,Kha oula DJELLOUT,Amin a SAIDI	Water management currently global problem to all of us to tackle them in near future we need to plan it smartly. As we are living in modern world filled with lots of useful sensors from which we can designed systems with water saving capabilities. The work in this paper is focusing on increasing effective use of water using field assist to farmer. Basically it works with soil moisture sensor which gives finding of moisture level in soil and reconnects with Thing Speaks cloud via Wi-Fi module ESP8266 to observation of soil conditions. Proposed system also set with an algorithm such that on soil moisture pattern data it can predict decision on irrigation of crops. system also warns farmer about empty water source if it occurs . benefits of using this system also includes weather prediction through website. The device has the potential to be beneficial in water-scarce, geographically isolated places due to its energy independence and low cost. The fact that the technology is simple to use for farmers adds to its utility. It also saves water by preventing waste.

5	Smart agriculture monitoring and control using IOT	Anushree Math, Layak Ali, Pruthviraj U	India is a country where agriculture plays a vital role. As a result, it's critical to water the plants wisely in order to maximise yield per unit space and so achieve good output. Irrigation is the process of providing a certain amount of water to plants at a specific time. The purpose of this project is to water the plants on the National Institute of Technology Karnataka campus with a smart drip irrigation system. To do this, the open source platform is used as the system's fundamental controller. Various sensors have been employed to supply the current parameters of components that impact plant healthiness on a continual basis. By controlling a solenoid valve, water is provided to the plants at regular intervals depending on the information acquired from the RTC module. The webpage may be used to monitor and manage the complete irrigation system. This website contains a function that allows you to manually or automatically control plant watering. The health of the plants is monitored using a Raspberry Pi camera that gives live streaming to the webpage. The controller receives water flow data from the water flow sensor through a wireless network. The controller analyses this data to see if there are any leaks in the pipe.
			wireless network. The controller analyses this