LITERATURE SURVEY

Title & Author (s)	Year	Technique (s)	Findings / Pros / Cons
IoT Applications in Agriculture – *Chabla, Raquel, Karina and Moran, Cesar and Grijalva, Paola and Recalde, Tanya*	2019	IoT, Sensors, Cloud Computing	The objective of this paper is to offer an overview of the IoT applications in agriculture through topics such IoT-based software applications for agriculture available in the market, IoT-based devices used in agriculture, as well as the benefits provided by these technologies.
Using Cloud IoT For Disease Prevention in Precision Agriculture – *Foughali, Karim and Fathallah, Karim and Frihida, Ali*	2018	WSN, DSS, Late blight	➢ The application of decision support system (DSS) for potato late blight disease prevention has proven its benefit. ➢ Present a new prototype of late blight prevention decision support system based on sensor network and cloud IOT.
Development of IoT for smart agriculture a review - *Lakhwani, Kamlesh and Gianey, Hemant and Agarwal, Niket and Gupta, Shashank*	2019	ITU, IoT	The concepts help to interconnect physical objects equipped with sensing, actuating, computing power and thus lend them the capability to collaborate on a task in unison remaining connected to the internet.

IoT Based Smart Agriculture System - *Sushanth, G and Sujatha*	2018	IOT WSN Gateway Sensors	➢ It is proposed to develop a Smart agriculture System that uses advantages of cutting edge technologies such as Arduino, IOT and Wireless Sensor Network. ➢ It includes development of a system which can monitor temperature, humidity, moisture and even the movement of animals which may destroy the crops in agricultural field through sensors using Arduino board
Iot based intelligent agriculture field monitoring - *AshifuddinMondal, Md and Rehena, Zeenat*	2018	IoT, ThinkSpeak Cloud	➢ This research work is to propose a smart farming method based on the Internet of Things (IoT) to deal with the adverse situations. ➢ This work presents an intelligent agriculture field monitoring system which monitors soil humidity and temperature.
Smart agriculture using clustering and IOT – *Aher, Agraj and Kasar, Janhavi and Ahuja, Palasha and Jadhav, Varsha*	2018	IoT, Clustering, Cloud, Node	This paper focuses on remote monitoring system for the agricultural industry combined with some farmer friendly applications.
A context-aware middleware cloud approach for integrating precision farming facilities into the IoT toward agriculture 4.0 – *Symeonaki, Eleni and Arvanitis, Konstantinos*	2020	WSN, IoT, Farm Management, Middleware, Cloud	This paper focuses on the issue of facilitating the management, process, and exchange of the numerous and diverse data points generated in multiple Precision Farming environments by introducing a

and Piromalis, Dimitrios			framework of a cloud-based context-aware middleware solution as part of a responsive, adaptive, and service-oriented IoT integrated system.
IoT-based framework for smart agriculture – *Yang, Jian and Sharma, Amit and Kumar, Rajeev*	2021	IoT, WSN, ThinkSpeak Cloud	➢ The proposed system presents a smart agriculture monitoring system that collects and monitors the soil moisture, environmental temperature, and humidity. ➢ The measured soil moisture, temperature, and humidity are stored in ThingSpeak cloud for analysis.
IoT Cloud Enabeled Model for Safe and Smart Agriculture Environment - *Tawalbeh, Mais and Quwaider, Muhannad and Lo'ai, A Tawalbeh*	2021	IoT, Cloud, Amazon Web Service	The propose a secure cloud-enabled IoT model with authorization and authentication techniques using the Amazon Web Service platform.
Smart agriculture using iot - *Deepa, Bammidi and Anusha, Chukka and Chaya Devi*	2021	Farm Automation, Node MCU, Sensors, Cloud	➢ An automated agriculture system is developed to monitor and maintain the important aspects of farming like temperature, humidity, soil moisture content and sunlight using IoT technology. ➢ The proposed system is expected to be helpful to the farmers in controlling an irrigation system in a better and accurate way.