Literature review

Sno	Title	Year&Author	Methodology	Advantages	Drawbacks
1	**IOT based Smart Agriculture in India**	**Year:**2021 Dr . V.Suma Professor, Department of Information Science and Engineering, Dayananda College of Engineering, Bangalore, India	In this project The IoT system collects and processes the data from the different sensor outputs sensing the temperature ,climate and humidity with centralized processing servers and provides input to green fieldwork devices in realtime.	Farmer can have the details about smart agriculture or future prediction information through internet services from agro experts. The experts can provide the idea about field crop plantation, pesticide control, and management in cultivation of the agricultural land	Costeffectiveness in the IoT devices in the reduction of hardware and software cost with compromisin g precision system output. The imported devices ignores the compromise with the component's expenses gets minimized.

2	**Smart Agriculture monitoring and control system using IOT**	**Year:**2022 Dr.Abilash Lad Dept of Electronics and Communication Engineering Thapar Institute of Engineering and Technology, Patiala	The use of IoT devices in smart farming aids in the modernization of information and communication for better crop growth moisture, mineral, light and other factors can be assumed.	Complexity of supervision and continuous monitoring can be reduced to its core. The data will be available on both a Smartphone and a computer. It will have a good impact on agricultural productivity as well.	There is a chance that the water consumption will be higher or that the time it takes for the water to reach the destination will be longer, resulting in crop dryness.

3	**Smart Agriculture system using IOT Technology**	**Year:**2021 Dr. Venkataraao Dadi Andhra University College of Engineering	Wireless sensor network in the process of development in smart and precision agriculture can be used to monitor regularly the changes in environmental conditions	Smart irrigation system in an IOT based device helps in analyzing the climatic conditions that can be incorporated by small players in farming and enjoy high field profit earning	It uses a Bluetooth technology so when it goes out of range the connection would be terminated. It also lacks interoperability which is necessary for larger fields.
4	**Agricultural Production System using IOT**	**Year:**2020 Dr. Chandhini .K Dept of Computer Science and Engineering, Bangalore, India	IOT is all about connecting systems so as to allow an integrated ,multidimensional view of farming activities, enabling deeper	It enhances correlation analysis between crop statistical information and agricultural environment information	Sensors misfunction as they were continuously in wet area .

			understanding of how the ecosystem works	to analyze current conditions and future harvest.	
5	**IOT based Smart Agriculture Monitoring System**	**Year**:2020 Dr.N.Suma Department of Electronics and Telecommunication Engineering SSN College of Engineering, Coimabtore	In the field section ,various sensors are deployed in the field like temperature sensor ,moisture sensor and PIR sensor to monitor the ecosystem	This system is used to integrate the quality of soil and the growth of crop in each soil	Sensors emit heat radiations that affect the growth of crops
6	**Smart Agriculture**	**Year:**2021 Dr.V.Dankan Gowda Dept of Electronics and Communication Engineering, Bangalore	Sensors test the efficiency of fertilizers that would be automatically spreaded on the fields.	It is used to boost productivity by cultivating food more substantially and also enhances treatment optimization.	Cost of these sensors are not affordable for farmers.
7	**Smart Agriculture Technology**	**Year:**2022 Dr.Stephen Symons Canadian Grain Commission, Canada	Remote sensing technology enables detection and monitoring of physical characteristics of	By the help of this technology we can find which crop is suitable for particular soil.	There arises systematic measurement errors in sensors .

			the earth's surface.		
8	**Intelligent insecticide and fertilizer recommendation**	**Yea**r:2022 Dr.Tanmay Thorat Dept of Mechanical Engineering, MIT ADT University, Pune.	Cloud based system is used that helps the farmers to use pesticide in an optimal manner.	This system accurately identifies the diseases on the plant and suggests disease treatment method.	Due to unattended diseases, crops get affected in larger manner which hampers production.
9	**Smart Agriculture technology**	**Year:**2020 Dr.David Reiser Department of Agricultural Engineering, Germany.	Digitization allows farmers for data analysis and storage including security support.	It increases farm input efficiencies from decreases in negative environmental impacts as well as automated documentation.	The imported devices ignores the compromise with the component's expenses gets minimized.

10	**Livestock farming**	**Year**:2022 Dr.Spyros Fountas Institute of Bio-Economy, Greece.	XR aims to use computer generated virtual environments to extend human capabilities .	Helps in monitoring the humidity of the field.	For larger areas it takes more time for the water to reach the destination.