IOT Based Smart Crop Protection System For Agriculture

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S.No	TITLE	PROPOSED WORK	TOOLS USED/ ALGORITHM	TECHNOLOGY	ADVANTAGES/ DISADVANTAGES		
1	Smart Crop Protection System Using IOT.	The IOT device is used to indicate the farmer by a message while someone enter into the farm and we are used SD card module that helps to store a specified sound to fear the animals.	 Arduino UNO .NodeMCU LCD display Flame Sensor PIR sensor SD card Module Solar panel. 	• Internet Of Things(IOT)	 Cost effective method Optimize water use Substance high yielding. High quality crop production Need for each soil type is calibrated. 		
2	Protection of Crops from Wild Animals Using Intelligent Surveillance System	The system determines if the unauthorized person is an animal or human intruder based on Haar feature based cascade classifiers.	 Buzzer/AlArm GSM Module Rasperrypi PIR Sensor Arduino UNO Light Sensor LCD display WIFI Modules. Temperature sensor. 	Internet Of Things(IOT)	 Effective, accurate and adaptive. Improve productivity Poor living conditions and hygiene for livestock Possibility of poor quality food products 		

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3	Smart CroP Protection USING Arduino	It acts as an adaptable system which provides a practicable system to the farmers for ensuring complete safety of their farmlands from any attacks or trespassing activities.	 passive infrared sensor (PIR) Smoke sensor Arduino UNO GSM MODULE BUZZER SOIL MOISTURE SENSOR 	• Internet Of Things(IOT)	 Long life and low cost Simple drive circuit Smart watering system is a bit expensive Connectively and power dependences
4	IoT Based Intelligent Agriculture Field Monitoring System.	to design an IoT based smart farming to control high voltage electrical devices like pump, flap of playhouses etc.	 Decision tree Extreme Gradient Boosting(XGB) Gradient Boosting(GB) Adaboost Random Forests K-Nearest Neigh bors 	• Internet Of Things(IOT)	 It is more efficient high crop yield Technical complexity Higher cost

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5	Implementation of IoT based smart crop protection and irrigation system	The purpose is to grant monitoring device for crop safety to animal outbreaks and environment circumstances	 Inductive Relay Signal Relay ARM Cortex-A LED Buzzer LDR sensor Moisture sensor Ultrasonic sensor SD card 	• Internet of Things(IOT)	 Guideline of horticultural water system stays restrictive to the set up significant interests of Farming. Monitor the system for crop security .
6	Protection Of Crop and Proper Usage Of Rain Water Using Wireless Sensor Networks	 Adopting this concept farmers can save time, water, and money. The proposed system implemented uses WIFI and an Android mobile phone to report the details about irrigation. 	 Soil Moisture Sensor Humidity and Temperature Sensor Rain Sensor Botfather Kiel µVision 	 Internet of things (IOT), wireless sensor network (WSN) 	 Increase salinity Water logging Hindrance in air communication to plant roots Reduction in temperature to soil Land becomes marshy More nitrate formation in soil Acidity of soil

THANK YOU