LITERATURE SURVEY

1.TITLE: Bluetooth based Sensor Monitoring in Industrial IoT Plants.

AUTHOR: Anitha Varghese, Rahul N. Gore, Himashri Kour, Mihit Gandhi, Deepaknath Tandur.

YEAR: 2019

Web of Things reception in conventional and slow changing modern plants, for example, power, water, oil-gas and substance has demonstrated to be helpful in giving business esteem by changing how information is used in direction and perception. Regular modern IoT use cases include securing information from sensor gadgets in plant and imparting something very similar to web for neighborhood or remote observing and control. The sensor information procurement in a modern plant hence becomes central as similar obtained information is utilized for drawing out the hidden information on framework. IoT regularly requires a nearby, low power remote correspondence to secure information from sensor gadgets and neighborhood entryway that is associated with web for neighborhood or remote checking and control. This paper portrays how Bluetooth low energy (BLE) innovation can be utilized to associate sensor hubs to Web based administrations and applications involving passage in a modern plant. It likewise examines the exhibition of BLE innovation as a neighborhood correspondence for sensor gadget observing

2.TITLE: Design of An IoT based Smart Plant Monitoring System

AUTHOR: Apeksha Rane, Bhushan Vidhale, Priyanka Hemant Kale, Ganesh Khekare.

YEAR: 2022

In IoT plant checking framework we can screen and control with the assistance of IoT ideas. The gasses created by the plant in Day time and evening will be observed on IoT cloud. What's more, as indicated by the dampness of the dirt the water siphon supply to the plant will be controlled. In the event that dampness is seen underneath the specific limit esteem, the siphon will get turned on and when dampness arrives at over the edge level then the water siphon will be switched off by the regulator in the framework. The Temperature and stickiness will be detected by brilliant sensors carefully. The perilous gas will be detected by the other sensor at that spot. The regulator which is coordinated in the framework will send all the observed boundary and different gasses information on IoT Cloud with the assistance of Wi-Fi and IoT framework. Other hardware is utilized to control the hand-off and to give power supply to the framework. On the IoT cloud the information will be gotten on the google firebase Continuous data set. From that it will be moved to the AWS server and every one of the information will be imagined by various checks and past information will be plotted.

3.TITLE: An IoT based Environment Monitoring System

AUTHOR: Mehedi Hasan, Abdul Hasib Siddique, Farida Habib Semantha, Fahad Faisal, Mohammed Rezwanul Islam, Mosfiqun Nahid Hassan.

YEAR: 2020

As of late, individuals are getting more aware of the climate they are living in. This cognizance is driving the need to foster a solid natural checking framework. A natural air quality checking framework likewise has modern application. In mining or in weighty industry, there is plausible of air tainting by various destructive gases. In such perilous circumstances, a natural observing framework might possibly save the existence of the laborers. In such huge scope sensor sending, there are information assortment, information the executives, association, and power utilization issues. IoT innovation is explicitly appropriate for this kind of need. This paper presents an IoT based structure that actually screens the adjustment of a climate utilizing sensors, microcontroller, and IoT based innovation. Clients can screen temperature, moistness, distinguish the presence of destructive gases both in the indoor and open air climate utilizing the proposed module. The information is put away in the web server and the client can get to the information anyplace on the planet through a web association. In the proposed work a web application is created to give fundamental data to the client. The client can likewise set up a notice for basic changes in the sensor information. In contrast with other firmly related frameworks, the proposed framework is a minimal expense one, precise and easy to understand. It is additionally cloud-based and has simple observing and information representation modules. The framework has been assessed in various stages. In the wake of testing every one of the capabilities in various circumstances, it shows a serious level of exactness and unwavering quality.

4.TITLE: Smart Plant Monitoring System using NodeMCU.

AUTHOR: S. Drakshayani, Y. LaksmiManjusha, P. Ramadevi, V. Madhuravani, K. Rama Suguna

YEAR: 2022

Cultivating is the development of plants and animals. Plant checking is perhaps of the main assignment in cultivating. The objective of this paper is to involve IoT in the NodeMCU framework stage for plant checking and shrewd cultivating. The essential objective of this paper is to diminish direct communication and give solace to the rancher by working on the framework's general execution. Dampness, daylight, and soil dampness are significant variables to consider while checking plant efficiency. Plant development and wellbeing data should be given to the client consistently by checking and recording these boundaries. The NodeMCU communicates with every one of the sensors utilized in this task. Ranchers can utilize IoT to straightforwardly screen and control plant data by means of their advanced cells. By detecting and controlling the boundaries of the plants without their actual presence, this shrewd cultivating framework will furnish the client with accommodation and solace. The savvy cultivating application can be introduced on any Android-empowered gadget. The product utilized is the Arduino IDE and the IoT stage. The Arduino IDE is utilized to incorporate and transfer the program to the NodeMCU, and the IoT stage is utilized to show temperature, dampness, air strain, and soil dampness from a good ways. This will help the rancher in figuring out the connection between plant development and referenced plant boundaries.

5.TITLE: Automatic plant monitoring system

AUTHOR: K. Krishna Kishore, M.H. Sai Kumar, M. B. S. Murthy.

YEAR: 2017

The programmed plant checking framework has as of late drawn in huge interest because of the likely application in arising innovation. All the more critically, this procedure is utilized to upgrade the exhibition of existing strategies or to create and plan new methods for the development of plants. The plant checking framework is useful for watering the plants and to screen not many boundaries for development of plants. This framework is extremely utilized in couple of regions like nursery ranches and in agribusiness. In this framework a system is laid out to find the dampness content in the dirt with the assistance of soil dampness sensor and contingent on the state of the sensor the water is controlled. Another significant boundary is by catching the pictures of the plant by utilizing Arduino interacted camera, and handling the picture by utilizing picture handling to examine and decide the sickness affected by making the component vector information base and recovery of pictures from data set like question picture. This aides in giving the suitable measure of water for plants so diminishes a few circumstances like mud breaks, water logging. This assists in flooding the field with night during evening, so doesn't need the rancher to physically turn ON the engine.

6.TITLE: Condition Monitoring and Detection of Hazardous Gas Leakage using Smart Device.

AUTHOR: V S D Rekha, Naga Sai Monika CH, Nikhitha Sri B, Sravya A.

YEAR: 2022

Numerous mechanical headways are occurring in everyday life for the better expectation for everyday comforts alongside wellbeing and security. IoT is one of improvement in remote correspondence. In this paper, Gas spillage location with a ready framework utilizing Web of things has been appeared. There are many gases which are hurtful to life that encompass us which might slip by everyone's notice. Families, laborers in the modern plant and petroleum treatment facilities, in the event that any gas spillage occurs over their concerned regions and on the off chance that the gases are inflammable there will be a deficiency of human existence. Thus, this paper proposes an arrangement which can caution us at whatever point gas spillage occurs. In this paper, Arduino Nano is utilized. MQ-2 Gas sensor which identifies the gases like LPG, Carbon Monoxide, and so forth is associated with Arduino Nano. Arduino Nano interacts with GSM module alongside 16x2 LCD show. GSM module cautions the individual by calling and sending a ready SMS. In the event that gas spillage occurred, the framework identifies it and quickly produces an alarm signal by blaring the bell in this manner sparkling the Drove joined with the MCU and by showing the advance notice message on LCD. Green and Red LEDs are utilized to demonstrate the gas spillage.

7.TITLE: LPG monitoring and leakage detection system.

AUTHOR: Shruthi Unnikrishnan, Mohammed Razil, Joshua Benny, Shelvin Varghese, C. V. Hari.

YEAR: 2018

In this paper, we have proposed a Condensed Petrol Gas (LPG) checking and spillage identification framework. With the huge interest and utilization of LPG, this framework would be useful to screen the use of LPG consistently and to make about any risks that might happen due aware of LPG spillage. We have planned a framework that cautions the client of how much LPG left so that fitting measures can be taken. Since LPG is a profoundly risky and inflammable gas, we have likewise planned a framework to caution the client with an alert when there is a spillage of LPG so that actions are taken to keep away from a blast

8.TITLE: Directional radiation detector.

AUTHOR: J. Uher, C. Frojdh, J. Jakubek, S. Pospisil, G. Thungstrom, Z. Vykydal.

YEAR: 2007

Numerous applications like homeland security, radiation assurance, control of fissile material expansion and other require identification of radioactive materials, yet additionally their confinement. We are introducing a directional locator in view of a variety of semiconductor identifiers able to decide course where the radioactive source is set. Semiconductor single cushion indicators are organized into lines and isolated by a safeguarding material. Choice of the indicators and safeguarding material relies upon the kind and energy of the radiation wanted to screen (for example X-beams, gammas or neutrons). Level of the sign, for example count rate, in every locator relies upon the point of the approaching radiation. Examination of the include rate in every finder permits working out rakish place of the source. A progression of reproductions and assessing estimations of the directional radiation recognition standard is introduced.

9.TITLE: IOT based Temperature Monitoring System.

AUTHOR: Utsav Gada, Bhavya Joshi, Siddhant Kadam, Nilakshi Jain, Srikant Kodeboyina, Ramesh Menon.

YEAR: 2021

Web of Things (IOT) alludes to every one of the gadgets which are available on the planet and associated with the Web. The point of IOT is to gather and divide information among two gadgets utilizing the Web. IOT is gaining gigantic headway in the beyond couple of years, and has substantiated itself exceptionally helpful in numerous genuine applications. It is extremely helpful in applications which need both equipment and programming. In this paper we will present an IOT based Temperature checking framework which is fabricated utilizing Raspberry pi PC, camera and sensors on the equipment side and python running in the backend. Temperature checking frameworks is a continuous framework which stores the information on a firebase cloud based realtime data set. The paper will initially begin presenting the Temperature observing framework and how it tends to be valuable in Coronavirus circumstance. Then, at that point, it will give a concise thought of the parts utilized alongside its specialized determinations. Pushing ahead, the paper will make sense of why cloud administrations are essential in IOT. It will then, at that point, give a concise presentation of the firebase cloud based realtime data set and end that part making sense of where and how we will utilize firebase cloud based realtime data set in Temperature checking framework. Then, at that point, the paper will show a block chart where every one of the info yield parts are shown. It will be trailed by a flowchart which will give an unmistakable thought of how the framework will function.

10.TITLE: Fibre-Optic Based Sensors for Dust Monitoring.

AUTHOR: F. Hasheminasab, S.M. Aminossadati, R. Bagherpour, M. Amanzadeh.

YEAR: 2017

Coal dust is one of the principal wellsprings of wellbeing and danger in surface and underground coal mineshafts. Coal dust checking and control are basic estimates in any coal mineshaft activity. Optical residue detecting has turned into a suitable innovation for dust checking as it has various benefits over ordinary gravimetric techniques. Fibre-optic based sensors are particularly significant in detecting dust particles in perilous conditions and in the presence of explosives inside coal mineshafts. This paper presents an outline of involving fibre-optic based sensors for estimating dust focus.