

IOT Based Smart Agricultural System

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ABSTRACT

Agriculture provides human beings with vital resources such as fiber, food and energy ; therefore it has been one of the most important industries in human history . Efforts being made to reduce the losses of the farmers and increase the productivity by adopting newer technologies. By utilizing new technologies , the agriculture sector could be further advanced . IOT in particular is a new technology that is being used now a days in many leading industries . In this report we present a miniature farm which is based on IOT systems that intends to give the farmers a smart farming solution using the new wave technology such as NodeMCU, IoT, WNS. We used NodeMCU and connected different sensors (DHT-11 as temperature sensor, soil moisture detector to detect water level of the soil and PIR sensor to sense the intruder activity) to it which will detect the real time data and this data is further stored on cloud for future access . Blynk application is used to display the collected concurrent data as well as to control switches of other important devices used in the field like Motor , Fans and bulbs or heaters. It is helpfull for taking farsighted and precautionary actions to reduce mislaying. This system provides a cheap and easy to use model of smart farming. Through this report we tend to show the power of IOT and how it can disrupt the agriculture.

Keywords: Internet of Things; Smart Agriculture; Weather Monitoring; Sensors; NodeMCU; Blynk

1. INTRODUCTION

In the major leading countries of the world, agriculture has played an essential role in the economic growth. To increase the production, various technologies have been given to farmer in the developed countries . On the other hand farmer in developing countries and under-developed countries still rely on old techniques due to lack of knowledge of the modern technology . The power of these technologies which can exponentially

increase their crop production is not known to them [1]. The history is evidence that the yield of any product has increased whenever the human labour is replaced by automated systems [2].

Therefore, in agriculture sector modern science and technology should be implemented so that farmers can benefit from an increased yield [3]. The data collected from several sensors and then sending to server with the use of wireless sensor network [2]. The IoT has influenced the wireless network in a better way. The variety of sensor is wide and can monitor all parameters [4]. Through the use of internet multiple modules, drivers, smart objects and sensors can be connected to each other. It is a crucial factor to digitalise the agriculture sector [5].

Enhancement of modernized cultivation through IOT is the conventional approach of smart agriculture. Getting precise agriculture technologies and techniques helps us in exploring plethora of ideas which are effective in the agriculture field to maximize the production of food, minimize the environmental impact and lower the cost [6]. In recent years, this IOT technology has merged vastly with the several domains to improve communicabilities such as networking, utilization of the resources and distributing the load [7]. The capacity of technology like machine learning, UAV's, data analysis and many more. To intensify operations of the farm is a significant feature. In smart agriculture, a wide range of agriculture parameters, including ecological factors, control of weed in field, greenhouse gases, quality of soil, use of pesticides and many more factors should be monitored to cut the cost and increase the yield productivity [8]. In this paper , an intelligent smart farming system which will enable the user to utilize the resources more responsibly , get a better yield and avoid any intruder activity like wild animals or human beings that may harm the farm is being studied upon . A microcontroller unit and many

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systems Provides a joint consideration of other newly emerged technologies and concepts in relation to CPS like cloud computing big data fog computing and crowd sourcing Includes topics related to CPS such as architecture system networking application algorithm security and privacy

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Distributed Computer and Communication Networks Vladimir M. Vishnevskiy,Konstantin E. Samouylov,Dmitry V. Kozyrev,2019-12-18 This book constitutes the refereed proceedings of the 22nd International Conference on Distributed and Computer and Communication Networks DCCN 2019 held in Moscow Russia in September 2019 The 50 full papers and 2 short papers were carefully reviewed and selected from 174 submissions The papers cover the following topics Computer and Communication Networks and Technologies Analytical Modeling of Distributed Systems and Distributed Systems Applications

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Systems and Computer Technology Yunfei Chen,Xiaodong Liu,Lipo Wang,Chunlei Ji,Qiang Sun,Yuan Ren,Xin Wang,2015-09-17 This volume consists of papers presented at the 2014 International Symposium on Systems and Computer Technology ISSCT 2014 Shanghai China 15 17 November 2014 The demand for systems and informatics have been constantly increasing as more and more computer applications have been built Great efforts have been made to improve the state of the a

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explains the application of Artificial Intelligence and Internet of Things on green energy systems The design of smart grids and intelligent networks enhances energy efficiency while the collection of environmental data through sensors and their prediction through machine learning models improve the reliability of green energy systems

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