**PROJECT TITLE: SMARTFARMER - IOT ENABLED SMART FARMING APPLICATION**

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**ABSTRACT**

India is agriculture sector, on either side, is losing ground every day, affecting the ecosystem\'s output capacity. In order to restore vitality and put agriculture back on a path of higher growth, there is a growing need to resolve the issue. A large-scale agricultural system necessitates a great deal of upkeep, knowledge, and oversight. The IoT is a network of interconnected devices that can transmit and receive data over the internet and carry out tasks without human involvement. Agriculture provides a wealth of data analysis parameters, resulting in increased crop yields. 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. This research looks into a few of these characteristics for data analysis with the goal of assisting users in making better agricultural decisions using IoT. The technique is intended to help farmers increase their agricultural output.

**LITERATURE SURVEY**

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| Book/journal | Author’s name | Inference |
| Project | **Nor Adni MatLeh, Zakiah Mohd Yusoff** , | **The term "Internet of Things" refers to the connection of objects, equipment, vehicles, and other electronic devices to a network for the purpose of data exchange (IoT). The Internet of Things (IoT) is increasingly being utilised to connect objects and collect data. As a result, the Internet of Things' use in agriculture is crucial**. |
| Internet of Things (IoT)- Based Wireless Health: Enabling Technologies and Applications | **Divya J., Divya M.,Janani V.** | **Agriculture is essential to India's economy and people's survival. The purpose of this project is to create an embedded-based soil monitoring and irrigation system that will reduce manual field monitoring and provide information via a mobile app. The method is intended to help farmers increase their agricultural output.** |
| Governance for Climate Smart agriculture,2018 | **H.G.C.R. Laksiri, H.A.C. Dharmagunawardhana** | **Agriculture is a substantial source of revenue for**  **Indians and has a huge impact on the Indian economy. Crop development is essential for enhanced yield and higher-quality**  **delivery. As a result, crop beds with ideal conditions and appropriate moisture can have a big influence on output. Traditional**  **irrigation systems, such as stream flows from one end to the other, are usually used.** |
| Development of loT based smart security and monitoring devices for agriculture. | Anushree Math, Layak Ali, Pruthviraj U | India is a country where agriculture plays a vital role. As a result, it's critical to  water the plants wisely in order to maximise yield per unit space and so achieve good output. Irrigation is the process of providing a  certain amount of water to plants at a specific time. |
| Role of loT in Agriculture for the Implementation of Smart Farming. | Dweepayan Mishra, Arzeena Khan, Rajeev Tiwari, Shuchi Upadhaye | Agriculture is a substantial source of revenue for  Indians and has a huge impact on the Indian economy. Crop development is essential for enhanced yield and higher-quality  delivery. As a result, crop beds with ideal conditions and appropriate moisture can have a big influence on output. Traditional  irrigation systems, such as stream flows from one end to the other, are usually used. |