



## Artificial Intelligence (AI) and Internet of things (IoT) Technologies for Improving Agricultural Practice

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**Abstract :** Growth of the nation mainly relies on production of farming where farmers are the back bone of any type of developing nation. Farming plays a vital function in the development of Indian economy, since farming is totally depends upon natural resources and climate condition. The farming and also farming sector need to depend on cutting-edge concepts and also technological advancements to enhance the yield. Smart precision farming or Smart accuracy farming, is an ideal remedy to optimize farming manufacturing procedures of modern farming monitoring using digital strategies.

In this paper, Green Smart Farming method is suggested which supplies the adaptable service to boost the performance of the return making use of IoT that makes smarter best decisions to minimize expenses, saves time, increase manufacturing and decreases the workforce. The suggested Automated Environment-friendly Smart Farming method gathers the information from the different sensors like soil, moisture, humidity, light and so on, which is placed in different parts of the farms are sent to Raspberry Pi microcontroller. The microcontroller process the information utilizing Python as well as processed data will certainly be sent to the cloud storage that is Cassandra - fault-tolerant database.

Over all the recommended design focuses on the application of AI and IoT in agriculture and also the remedies proposed in this paper will certainly boost farming techniques, increase performance and also cause efficient use limited sources.

**Keywords :** Smart Farming, Precision Agriculture, Artificial Intelligence, Internet of things, Agricultural Practice

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