

# **IOT based Smart Farming**

## **SUBMITTED BY**

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## **PROBLEM STATEMENTS**

1. Agriculture in India is largely depends on various climatic season. As a result, production of food-grains fluctuates year after year. A year of abundant output of cereals is often followed by a year of acute shortage , so our project aim doesn't depend on monsoon. If there is shortage of water, the rain water which is stored in large tanks can be effectively used, otherwise if we need sunlight we have a heater it will give the required temperature for the plants to grow.
2. Water plays a major role in smart farming, due to the scarcity of water the crops are getting died and it affects the farmers. So our project is to determine the water level in soil and whenever the soil needs the water the water is sprayed. The water level in the tank will be monitored. There are various tanks to collect the rain and used it for future use.
3. Farmers in India and abroad face serious threats from pests, natural calamities, thefts, damages by animals and other types of crop losses, resulting in lower yields. So our project can aim to avoid animal invading into the farm . our project will detect any kind of motion and give a warning signal to the farmer And the farmer can prevent from the damage made by the crops.
4. The endangered plant species are getting distinct, In olden days they are wide variety of crops are grown and cultivated. so our motto and our ultimate aim is used to detect the soil fertility and according the soil fertility rare crops are grown and is to once again grow the rare species. For example the species like yellow coneflower, sweetbay magnolia etc. So the ultimate aim is to save the endangered plant species which should be grown in India.

