VSB ENGINEERING COLLEGE, KARUR

Electronics and Communication Engineering

IBM NALAIYA THIRAN

IDEATION PHASES

Title :Fertilizers Recommendation System For Disease Prediction

Leader Name : sathyaruba.A

Team Members : 1.Vaishnavi.S

2.Yohasupriya.K

3.Yuvasri.S

Mentor Name : Nandhini.P

Problem Statement:

* Farmers' conventional methods of agricultural cultivation are ineffective. It does not make proper use of all available resources.

* Farmers are unable to detect crop diseases due to a lack of knowledge and old practices, which often result in soil nutrient deterioration and exhaustion. As a result, crop failure occurs.

* Growing only certain crops depletes the soil, and if the crops are harmed by illnesses, farmers are uninformed of how to recover such crops.

* Food needs cannot be met until and unless efficient resource management and use is implemented.

* Farmers' conventional methods of agricultural cultivation are ineffective. It does not make proper use of all available resources. Farmers are unable to detect crop diseases due to a lack of knowledge and old practices, which often result in soil nutrient deterioration and exhaustion. As a result, crop failure occurs. Growing only certain crops depletes the soil, and if the crops are harmed by illnesses, farmers are uninformed of how to recover such crops. Food needs cannot be met until and unless efficient resource management and use is implemented.

Proposed Ideas:

SATHYARUBA.A

We can use solve problems using data mining technique

We could use Identify the disease and suggest the fertilizers

VAISHNAVI.S

We can uses SVM to classify tree leaves

We can use precision livestock farming

YOHASUPRIYA.K

We can use to suggest the fertilizer

We can use to identify the disease that affects the various plant organ such as stems

YUVASRI.S

We can use sensors for monitoring

We can use sensors plant disease detection

Final Ideas:-

India population is expected to reach more than 1.6 billion by 2030. With this huge hike in population, one can expect massive demand for agricultural consumption as well. With the advancement in the service sector, there is a big migration of workforce from the primary sector to the tertiary sector. In addition, the ignorance of rising diseases in crops is decreasing the yield of cultivation as well. Food being the primary necessity of human life, future researches need to take direction for reviving the agriculture arena. Artificial Intelligence should be the major tools for the researchers to address the above-mentioned issues. With the great diversity in agronomy species, a detailed database needs to be obtained for various portions of agriculture. By using proper tools of artificial intelligence and with the proper dataset, farming can be made more efficient for farmers. These methods can be considered as the major implementations to solve the future crisis