FERTILIZER RECOMMENDATION FOR DISEASE PREDICTION

INTRODUCTION:

- The system comes with a deep learning-based model which is trained using public dataset containing images of healthy and diseased crop leaves. The model serves its objective by classifying images of leaves into diseased based on the pattern of defect and gives solution on disease.

PROBLEM STATEMENT:

** In Agricultural aspects , if the plant is affected by leaf disease,then it reduces the growth And productiveness.

**Generally, the plant diseases are caused by abnormal physiological functionalities of Plants.

OCCURRENCE:

**During development of the crops as they will be affected by various diseases mainly in Rural regions.

PROBLEM SOLUTION:

- The solution to the problem is Deep learning, which is one of the applications of Artificial Intelligence, is being used to implement the proposed system.
- An automated system is introduced to identify different diseases on plants by checking the symptoms shown on the leaves of the plant
- Crop recommendation is going to recommend you the best crop you can grow in your land as per the soil nutrition value and along with as per the climate in that region.

Beneficial uses:

1.Farmer

2.Common People.

3.Seller

4.Buyer

5.Employees.

6.Industrial people.

VALUE FOR SOCIETY:

- Consumers Farming is one of the major sectors that influences a country's economic growth. In country like India, majority of the population is dependent on agriculture for their livelihood. Many new technologies, such as Machine Learning and Deep Learning, are being implemented into agriculture so that it is easier for farmers to grow and maximize their yield.

VALUE FOR ENVIRONMENT:

- In the crop recommendation application, the user can provide the soil data from their side and the application will predict which crop should the user grow. For the fertilizer recommendation application, the user can input the soil data and the type of crop they are growing, and the application will predict what the soil lacks or has excess of and will recommend improvements. For the last application, that is the plant disease prediction application, the user can input an image of a diseased plant leaf, and the application will predict what disease it is and will also give a little background about the disease and suggestions to cure it. These all are to improve the Agriculture, that's slightly reduces the poverty, climatic condition, soil erosion etc .

VALUE FOR BUSINESS:

- Predicting the fertilizers, Analyzing the disease in a tap makes the life of farmers easy with minimal subscriptions would provide an acceptable return for the organization.
- This action adds a lot of value to the company and the business in society.

FORM FACTORS AND REVIEW:

- FORM FACTORS:

** Our Fertilizer Recommentation system for disease Prediction is in the form of web application to provide this valuable service to the environment and society.

IT IS AN OPPURTUNITY?(public review)