V.S.B. ENGINEERING COLLEGE

Electronics And Communication Engineering

IBM NALAIYA THIRAN

TITTLE :Fertilizers Recommendation System For

Disease Prediction

DOMAIN NAME : Artificial Intelligence

INDUSTRY MENTOR NAME : Sowjanya, Sandeep Doodigani

FACULTY MENTOR NAME : Mr. Mahesh Kumar K

TEAM LEADER : Kalaiselvi P

TEAM MEMBERS NAME : 1. Karthika P

2. Chandra L

3. Kalaiselvi S

SAYS

- uses SVM to classify tree leaves
- identify the disease and suggest the fertilizers.
- SVM technique gives better result when compared to CNN.
- solve problems using data mining technique.

THINKS

- Reduction and recognition of plant disease using machine learning.
- Vectors are constructed based on leaf features such as color, shape, textures.
- The measurements of fertilizers suggested based on disease severity.

DOES

- Metrices such as true positive, true negative, false positive, false negative are used .
- Purpose method uses SVM to classify tree leaves, identify the disease.
- to suggest the fertilizer.

FEELS

- various segmentation algorithm can be implemented to improve accuracy.
- to identify the disease that affects the various plant organ such as stems.

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.