Project Title:
Fertilizers Recommendation System For Disease Prediction

Project Design Phase-1
Solution Fit Template

Team ID:
PNT2022TMID43230

Define CS, fit into CL

1. CUSTOMER SEGMENT(S) CS

Identify the disease and suggest the fertilizer.

The disease-based similarity measure is used for fertilizer recommendation.

6. CUSTOMER LIMITATIONS EG. BUDGET, DEVICES CL

Finding the leaf disease is an important role of agriculture preservation.

5. AVAILABLE SOLUTIONS PLUSES & MINUSES AS

Detection and recognition of plant diseases using machine learning are very efficient in providing symptoms of identifying diseases at its earliest

Explore AS, differentiate

Focus on PR, tap into BE, understand RC

2. PROBLEMS / PAINS + ITS FREQUENCY PR

Leaves are affected by bacteria, fungi, virus, and other insects.

In agricultural aspects, if the plant is affected by leaf disease then it reduces the growth of the agricultural level.

Finding the leaf disease is an important role of agriculture preservation.

9. PROBLEM ROOT / CAUSE RC

The plant diseases are caused by the abnormal physiological functionalities of plants. Therefore, the characteristic symptoms are generated based on the differentiation between normal physiological functionalities and abnormal physiological functionalities of the plants.

7. BEHAVIOR + ITS INTENSITY BE

The prediction and diagnosis of leaf diseases are depending on the segmentation such as segmenting the healthy tissues from diseased tissues of leaves.

Focus on PR, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS TO ACT TR

The purpose of image preprocessing is improving image statistics so that undesired distortions are suppressed and image capabilities which are probably relevant for similar processing are emphasized.

4. EMOTIONS BEFORE / AFTER EM

10. YOUR SOLUTION SL

Recommend the fertilizer for affected leaves based on severity level.The measurements of fertilizers suggested based on disease severity.

8. CHANNELS of BEHAVIOR CH

A digital camera or similar devices are used to take images of different types, and then those are used to identify the affected area in leaves.

OFFLINE

Extract online & offline CH of BE