

**JAYA ENGINEERING COLLEGE, THIRUNINRAVUR**  
**Department of Computer Science and Engineering**  
**IBM NALAIYA THIRAN**  
**IDEATION PHASE**  
**Define the Problem Statements**

Date	20 October 2022
Team ID	PNT2022TMID36381
Project Name	Fertilizers Recommendation System for Disease Prediction
Maximum Marks	2 Marks

**Problem Statement:** Agriculture is the main aspect of country development. Many people lead their life from agriculture field, which gives fully related to agricultural products. Plant disease, especially on leaves, is one of the major factors of reductions in both quality and quantity of the food crops. 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. After pre-processing using a median filter, segmentation is done by Guided Active Contour method and finally, the leaf disease is identified by using Support Vector Machine. The disease-based similarity measure is used for fertilizer recommendation.

<b>I am</b>	Jai(customer) and I am a farmer.
<b>I'm trying to</b>	Get more yield with good quality.
<b>But,</b>	I cannot find the diseases on plants by using only the old practices, which leads to poor quality and low quantity of the crop.
<b>Because</b>	I don't have much knowledge about the new variant of the crop diseases.
<b>Which makes me feel</b>	If I have any source for the identification of the crop disease, it will be helpful to increase the crop yield.



Problem Statement (PS)	I am	I'm trying to	But	Because	Which makes me feel
PS-1	Jai(customer)	Reduce crop diseases.	I couldn't identify the crop disease.	I am not aware of the new variant of the disease.	Unhappy
PS-2	James(Customer)	Get good quality crop yield.	I don't know how to use appropriate fertilizers for the crop disease.	I don't know the correct proportion of the fertilizers for the particular disease.	Worried about the yield. If I had a source to identify the disease, it will be more helpful to increase the crop yield.