

V.S.B. ENGINEERING COLLEGE, KARUR
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
IBM NALAIYA THIRAN
IDEATION PHASE
PROBLEM STATEMENT

Date	03 October 2022
Team ID	PNT2022TMID33300
Project Name	Fertilizers Recommendation System for Disease Prediction
Maximum Marks	2 Marks

Problem Statement:

Agriculture is the most important sector in today's life. Most plants are touched by a wide variety of bacterial and fungal infections. Diseases on plants placed a major constraint on the production and a major risk to food security. Hence, early and precise identification of plant infections is essential to ensure high quantity and best quality. In recent years, the number of diseases on plants and the degree of damage caused has risen due to the variant in pathogen varieties, changes in cultivation methods, and inadequate plant protection methods. Our project is proposed to build an automated system which is introduced to detect different diseases on plants by examination the symptoms shown on the leaves of the plant. Deep learning techniques are used to identify the illnesses and suggest the preventive measure that can be taken for those diseases.

I am	Farmers are the customers working in the agricultural land. Farmers who plants and cultivates crops and face issues of being infected by disease.
I'm trying to	An automated system is introduced to identify regular and different diseases on plants by inspecting the symptoms shown on the leaves of the plant and fertilizers are recommended through image processing.
But,	Protecting crops in organic farming is definitely not an easy task. Plant disease, especially on leaves, is one of the major factors of reductions in both quality and size of the food crops. Fertilizer Recommendation is not taken into consideration. Due to the varying climatic conditions, accurate results cannot be calculated by this system.
Because	Fertilizer is double-edged sword. It is throughput but destructive power, which depends on usage amount. Having some sensible awareness of usage of fertilizer can avoid unwarranted waste in the purchase of fertilizers and increase the production of crops.
Which makes me feel	These things make feel that it can't shield my crops and get loss in my venture. So, I wish to get expert intelligence to protect my turf.



Problem Statement (PS)	I am	I'm trying to	But	Because	Which makes me feel
PS	Farmer	Farmer try to deliver healthy plants and additional yield.	Plants get impacted by some diseases and I am unable to predict.	Farmers are not conscious of what I should do to foresee and defend it.	I should get expert intelligence to save my field.