

IDEATION PHASE
PROBLEM STATEMENT

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| DATE | 10 October 2022 |
| TEAM ID | PNT2022TMID1474 |
| PROJECT NAME | Fertilizer Recommendation System For Plant Disease Prediction |
| MAXIMUM MARK | 2 Marks |

Problem Statement:

Agriculture is the most important sector in today's life. Most plants are affected by a wide variety of bacterial and fungal diseases. Diseases on plants placed a major constraint on the production and a major threat to food security. Hence, early and accurate identification of plant diseases is essential to ensure high quantity and best quality. In recent years, the number of diseases on plants and the degree of harm caused has increased due to the variation in pathogen varieties, changes in cultivation methods, and inadequate plant protection techniques. An automated system is introduced to identify different diseases on plants by checking the symptoms shown on the leaves of the plant. Deep learning techniques are used to identify the diseases and suggest the precautions that can be taken for those diseases.

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| I am | The farmer who is trying to cultivating the crops for huge profit and very control in using fertilizer on the crops. |
| I'm trying to | Use the recent technologies to avoid disease in crops and trying increase the quantity and quality of crops. |
| But | I am unaware of the existing technology that can help me a lot to predict the disease and I don't know to use the correct fertilizer for disease. |
| Because | I don't want to spoil the soil quality and crops quality. |
| Which makes me feel | I'm not capable of cultivating the crops and maintaining the quality of land and producing good quality of crops. |