

PROJECT OBJECTIVE

Team Id	PNT2022TMID42096
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Project Name	Fertilizer Recommendation System For Disease Prediction

Objective:

Crop diseases are a major threat to food security, but their rapid identification remains difficult in many parts of the world due to the lack of the necessary infrastructure. This should be reduced automatically without any human intervention for that purpose we go for Artificial intelligence. In this project we use deep learning techniques (CNN) to detect the disease and classifying it. With the invent of plant diseases, the yield is affected adversely. Hence it is important to identify the disease at its earliest stages and find a cure to eradicate the disease. This can be achieved by targeting the disease places, with the appropriate quantity and concentration of pesticide by estimating disease severity using image processing technique. In this project K nearest neighbor classifier method has been used to segment the image into three images based on color. Among these images unaffected leaf regions and disease affected regions are used to calculated percentage of affected pixels. By calculating percentage of affected pixels disease severity can be observed with GUI which leads to take appropriate measure for treatment.