**About the problem statement- Plant disease prediction system for sustainable agriculture**

**In this project, we are going to make an AI-based model for predicting whether a plant is suffering from a disease or not from images of different part of the plant. With an additional feature of classifying the type of disease has occurred in the particular plant so that preventive measures can be taken.**

**This project will be using Neural Network as its core domain. More specifically, we will be using CNN (Convolutional Neural Network) for predicting whether the plant is having any disease or not, utilizing image processing, machine learning, and real-time data from environmental inputs, can help farmers with timely insights.**

**This model should accurately identify both healthy and diseased leaves, and this will aid in precision agriculture by enabling early detection and effective disease management. Such a model is required for sustainable agriculture for minimizing crop losses, and improving quality of the produced fruits and vegetables.**

**So, by developing an AI-based model for plant disease prediction we can enhance agricultural productivity, reduce crop losses, and support in the livelihood of millions of farmers throughout the world.**