PROJECT OBECTIVES

DATE	10 November 2022
TEAM ID	PNT2022TMID36687
PROJECT NAME	Fertilizer Recommendation System for Disease Prediction

Project Objectives:

In today's world agriculture is very important for life and helps to save the natural resources around us. Doing agriculture is the very hard in current scenario because of many disease due to pollution in water, air, soil. Identifying the disease is one of the huge hurtles in agriculture. Most of the plants are affected by leaf disease and it's hard to find to correct fertilizer to cure.The main objective of this project is to identify the disease in the plants and cure it in the early stage of the infection. 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 canbe taken for those diseases.

Agriculture has always been one of the most important factor. The art and science of cultivating the soil, growing crops and harvesting them . It includes the preparation of plant and animal products for people to use and their distribution to markets. And every crop needs the right fertilizer to stay healthy. The role of fertilizers is to increase yield and ensure healthy produce by supplying the right balanceof nutrients to the soil.

In recent years the amount of plants being affecting by diseases has increased and these can be due to the various pathogen thataffects the stems of the plants. A plant pathogen is an organism that causes a disease on a plant.

The Objective of this project is to detect the disease that is affecting the plants and recommending the suitable fertilizer for that

disease. For this deep learning is being used to detect the diseases and taking the required actions. An automated system is being developed to detect the diseases and to recommend the fertilizer.