Project Initialization and Planning Phase

Date	15 July 2024
Team ID	739989
Project Name	Crop Prediction using Machine Learning
Maximum Marks	3 Marks

Define Problem Statements (Crop Prediction Problem Statement Template):

Agriculture is one of the main sources of income in India. There is need to improve the sustainability of agriculture with the rate of increase in suicides of farmer due to crop failure and less yield and losses. Hence, it is a significant contribution towards the economic and agricultural welfare of the countries across the world. The Problem Statement revolves around prediction of yield of crops considering different climatic conditions of India including various attributes. Goal of this project is to help the farmers to choose the suitable crop to grow in order to get the required yield and the profit. Need for the crop yield prediction is very much essential at this point of time for selecting the right crop.

Who does the problem affect?	Persons who do Agriculture
What are the boundaries of the problem?	People who Grow Crops and facing Issues of Plant Disease
What is the issue?	In agricultural aspects, if the plant is affected by leaf disease, then it reduces the growth and productiveness. Generally, the plant diseases are caused by the abnormal physiological functionalities of plants.
When does the issue occur?	During the development of the crops as they will be affected by various diseases.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A farmer	Predict the best time to plant my crops	The weather is unpredictable	It affects the growth and yield of the crops	Uncertain and anxious about my crop yield
PS-2	an agricultural consultant	Provide accurate crop yield forecasts to my clients	There is a lack of reliable data on soil moisture levels	Soil moisture significantly impacts crop growth	frusted and unable to provide the best advice