

## **Project Milestone & Activity Planning**

**Project Name:** Fertilizers Recommendation System for Disease Prediction

**Team ID:** PNT2022TMID52605

### **1. Milestone of the project:**

A modern technology is created for fertilizers recommendation based on the crop disease identified. Farmers can protect their crop from diseases by using this intelligent system that recommends the appropriate fertilizers. This project comes in the form of a web application that takes leaf images of crop as input from the user and detects the crop disease providing fertilizer recommendations accordingly. Convolution Neural Network is adopted for image classification and mapping it to a crop disease with the highest probability of resemblance.

The major milestones of the project include:

- Obtaining relevant dataset of diseased leaf images of different crops
- Building a model using CNN technique followed by training & testing
- Design user interface for the web portal such as the Dashboard
- Develop registration portal to maintain records of the users
- Uploading the trained model at the backend
- Display the list of recommended fertilizers to the user
- Obtain feedback from the user
- Convert the web app to cloud based web application for scalability



## 2. Activity List:

Planning is a crucial role in project management because it helps the team members to schedule and manage their valuable time in completing the project. Identifying and assigning activities to team member help to proceed with the project in an planned manner. The project is split into five phases which are as follows:

**Phrase 1:** Information Collection and Requirement Analysis

**Phrase 2:** Project Planning and Building Modules

**Phrase 3:** Implementing the High Accuracy Deep Learning Algorithm

**Phrase 4:** Testing the model efficiency and correctness

**Phrase 5:** Deploying the Model on Cloud as web application and testing the final product

