Crop and Fertilizer Recommendation System Using Machine Learning

Week 1

## ***Q1 . What Is Machine Learning?***

Machine Learning is a field of computer science where algorithms learn patterns from data to make predictions or decisions without being explicitly programmed for each specific task. A machine learning is process by which a machine learns from data and the relationship between data and on the basis of it makes a prediction.

## ***Q2. What Is a Supervised ML Algorithm?***

A supervised machine learning algorithm is one that is trained on labeled data—meaning each training example comes with a known correct output—so that it can learn to map new input data to desired outputs.

## **Q3. What is Regression and classification?**

**Regression**

Regression is a statistical process in machine learning for estimating the relationships between a dependent variable and one or more independent variables to predict continuous outcomes .

**Classification**

Classification is a machine learning process that assigns input data into predefined categories based on learned patterns .