**Crop and Fertiliser Recommendation System using Machine Learning**

# What is ML (Machine Learning)?

Machine Learning (ML) is a subset of Artificial Intelligence (AI) that enables systems to learn from data and improve their performance over time without being explicitly programmed. ML algorithms analyze historical data to predict outcomes or identify patterns.

# What is Supervised ML Algorithm?

Supervised Learning is a type of machine learning where the model is trained on labeled data. In this approach, the algorithm learns from input-output pairs so it can predict the output for new, unseen data. Examples include:  
- Linear Regression  
- Decision Trees  
- Support Vector Machines  
- K-Nearest Neighbors

# What is Regression and Classification?

Regression: A supervised learning technique used to predict continuous values. Example: Predicting house prices or temperature.  
Classification: A supervised learning technique used to predict categorical outcomes. Example: Spam detection (Spam/Not Spam), disease diagnosis (Positive/Negative).