**PROPOSED SOLUTION**

Based on soil content and weather parameters like temperature, humidity, soil PH, nitrogen, phosphorus content and rainfall, the proposed system will predict best crop for a specific plot of land. The most efficient method for collecting and measuring data from various resources is data collection. Then the dataset must be pre-processed before being trained on the model. Data pre-processing can be done in stages, starting with the reading of the collected data set and moving towards data clean-up.

When the data is cleaned, certain redundant attributes are removed from the dataset as these are not useful for crop forecasting. To enhance accuracy, we need to remove these missing values or fill them with Nan values. Based on historical data, statistical algorithms and ML techniques are used to predict future outcomes. The primary objective is to go beyond simply understanding what has occurred in order to provide the best prediction of what will happen in the future. Here we use supervised ML algorithm with subcategories of classification and regression in our system. More than two ML algorithms are compared to obtain the results based on the one that provides the best accuracy.

**Advantages Of Proposed System**

1. Compares four different ML algorithms based on few performance metrics to find the best algorithm for the system.

2. System achieves better F1-score, Precision, Recall and Accuracy