**SYSTEM ANALYSIS**

**Existing System:**

The existing work has used less algorithms and their accuracy are displayed low range. Any algorithm is been measured using accuracy to obtain a best model.

Based on the model evaluation all the algorithms used by existing authors seems to have less accuracy.The predictions as well as the details are more important for a user to analyze and select a crop. The existing research restricts the crop recommendation of only one. And does not provide any additional values.

**Disadvantages:**

The lack of automation in existing agricultural systems translates to prolonged processing times and difficulty in accommodating dynamic user needs, ultimately leading to customer dissatisfaction. The existing technology gap must be rapidly bridged to align productivity metrics with international standards. The rising population, increased average incomes, and the impacts of globalization, will witness a surge in demand for not only greater quantities of food but also for food of superior quality and nutritional value, encompassing a diverse range of offerings. Consequently, the strain on available arable land to meet the augmented requirements for varied, high-quality produce will intensify

**Proposed System:**

Due to the changes taking place in the environment the proposed work helps to identify how to manage crops and harvest in a smart way. It guides an individual for smart farming. The aim of this work is to help an individual cultivate crops efficiently and hence achieve high productivity at low cost. It also helps to predict the total cost needed for cultivation. This would help an individual to pre-plan the activities before cultivation resulting in an integrated solution in farming.

**Advantage:**

The predicts only a crop based on the values entered into the SVM model. Data is most valuable. Hence more information can be obtained apart from using them for prediction. In this work best out of two algorithms is selected. But there are various algorithms dedicated for classification tasks. There is a need for working on other models such as K Neighbors classifier, Logistic Regression, Ensemble classifiers. These algorithms are indeed applied in proposed research work