**SYSTEM ANALYSIS**

**EXISTING SYSTEM:**

* Tripathy et al., provided a system to have management of pesticides for crop cultivation using data mining process.
* Pritam Bose developed a SNN model to have a spatiotemporal analysis with crop estimation.
* Crop and Yield Prediction Model suggested by Shreya S. Bhamose used Modified k-means clustering algorithm predicts the amount of harvest of crops and also water requirement for crops.

**DISADVANTAGES OF EXISTING SYSTEM:**

* In the existing system, they considered only about a particular State and not about all the states and other parameters.
* Relatively slower to build.
* Hard to interpret.
* Computationally expensive.

**PROPOSED SYSTEM:**

* Crop production depends on many agricultural parameters. Proposed work is based on the production of crops in previous years, crops can be recommended to the farmers.
* This kind of suggestions will make farmer to know that whether that particular is yielding a good production in recent years. Production of crops may become less due to any crop disease, water problem and many other factors. While considering about the production, farmers may get knowledge about which crop is in high volume in the market in that year. Based on this farmer can take decision of trend on crops in recent years. Farmers will be given recommendation by considering the season of crop production.
* The problem statement of the project is to recommend crops to the farmers using Decision Tree Classifier. The basic process of this project is that we will preprocess the data provided to us, then it is used to prepare the model for the backed and using flask to connect it to the UI interface to show the full and final output.

**ADVANTAGES OF PROPOSED SYSTEM:**

* In our proposed system, we have used a large dataset considering all the states of India, whereas in the existing system only a particular state was taken into the consideration.
* These recommendations can be extracted for educating the famers. Pictorial representation shows the farmer a deeper knowledge about the crops to choose for cultivation.
* Does not require normalization or Scaling
* Easily built
* Easy to interpret
* Computationally less expensive