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| **Sr.no** | **Name of researcher, Year of Publication** | **Paper title** | **Methodology Adopted / Modules Used** | **Observations Noted** |
| 1  2  3  4  5 | Prof. Rakesh Shirsath, 2017  Ji-chun Zhao, Jian-xin Guo, 2018  Miftahul Jannat Mokarrama, 2017  S.Pudumalar, E.Ramanujam, 2016  Yogesh Gandge, Sandhya, 2017 | Agriculture decision support system using data mining  Big Data Analysis Technology Application in Agricultural Intelligence Decision System    RSF: A Recommendation System for Farmers  Crop Recommendation System for Precision Agriculture  A Study on Various Data Mining Techniques for Crop Yield Prediction | 1.Subscription based system  2. ANN  3. Android application  4. Personalized content  1.Inference engine  2.Domain expertise  3.Knowledge engineering  4.Knowledge acquisition module  5.Knowledge base for recommendation system  1.Location Detection  2.Data analysis and storage  3.Similar location detection  4. Recommendation generation module.  1. Random tree  2. CHAID  3. KNN  4. Naïve Bayes  5. WEKA tool  1. Attribute selection  2. Multiple Linear Regression  3. Decision Tree using ID3  4. SVM  5. Neural Networks  6. C4.5 | 1. Android app with a login module  2. Previously planted crops  known to system  3. User feedback mechanism  4. Maintenance of crop.  1. Large database of crops  2. Processed using Hadoop  3. Professional knowledge  4. Past experiences  5. Feature selection using HDFS  6. Future Scope: Using Hadoop with Artificial Neural Networks.  1. Physiographic, thermal, crop growing period, crop production rate  2. Seasonal crop database  2. Similar location detection  3. Generating the set of crops  4. Similarity between the crops planted in a region  1. Pre-processing of data  2. Handling missing and out-of-range values  3. Feature extraction  4. Ensemble model to get higher accuracy  5. Rule generation  1. Selection of agricultural field  2. Selection of crop previously planted  3. Input from user  4. Preprocess  5. Attribute Selection  6. Classification algorithm on data |