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| Author and publication | Techniques used | Parameters achieved | Limitations |
| K. G. Liakos et al., (2018) | ML based detection can be extracted without the need of fusion of data from other resources. | Various parameters on which work was analysed were: crop management, livestock management, water management and soil management. | Nil |
| P. Priya et al., (2018) | A random Forest Algorithm for predicting the crop yield of particular area considering various parameters. | Various parameters such as rainfall, seasonal crop (Rabi and Kharif) district-wise, temperature (max.), crop production in terms of Kgs/tonnes. | Nil |
| Dr. Pushpa Mohan et al, (2017) | Regression Analysis, Linear regression are used. | Techniques employed and parameters achieved with limitation that every technique and experiment faced. | It is more complex to predict the optimized number of input parameters. |
| Hemageethaa , 2016 | Naïve Bayes, Appriori  algorithm are used for yield prediction. | Focuses mainly on various soil parameters like pH,  Nitrogen, moisture etc and comparison accuracy is also presented. | Only 77% of  accuracy is  achieved. |
| Sujatha , 2016 | Naïve Bayes, J48, random forests, support vector  machines, artificial neural networks are implemented. | Climate data and Crop  parameters are used for crop yield is predicted. | Other parameters  like soil are not  considered. |
| Kushwala , 2015 | Hadoop Distributed File System (HDFS) is used. | The proposed prediction algorithm helps in building  a decision support system for precision farming. | It only predicts the  suitability of crop  for the given soil  parameters and not  the yield. |
| Fathima , 2014 | k means and Appriori  algorithm are used. | Crop type and Irrigation parameters are considered. | Focus on the  policies that  government could  frame by the  cropping practices  of farmers |
| Kaur , 2014 | They use BP neural network  and simulate the result using  MATLAB. | The suitable data model for  achieving high accuracy  for price prediction is  found. | The prediction is  mainly based on  only price. |