ESTIMATE THE CROP YIELD USING DATA ANALYTICS
LITERATURE SURVEY

TITLE: *Agriculture Data Analytics in Crop Yield Estimation.*

AUTHOR: *B M Sagar, Cauvery N K.*

YEAR:2018.

TECHNIQUE(S): *Data Analytics.*

ABSTRACT:

Agriculture is important for human survival because it serves the basic need. A well-known fact that the majority of population (≥55%) in India is into agriculture. Due to variations in climatic conditions, there exist bottlenecks for increasing the crop production in India. It has become challenging task to achieve desired targets in Agri based crop yield. Various factors are to be considered which have direct impact on the production, productivity of the crops. Crop yield prediction is one of the important factors in agriculture practices. Farmers need information regarding crop yield before sowing seeds in their fields to achieve enhanced crop yield. The use of technology in agriculture has increased in recent year and data analytics is one such trend that has penetrated into the agriculture field. The main challenge in using big data in agriculture is identification of effectiveness of big data analytics. Efforts are going on to understand how big data analytics can agriculture productivity. The present study gives insights on various data analytics methods applied to crop yield prediction and also signifies the important lacunae points' in the proposed area of research.

TITLE: *Crop Yield Prediction Using Data Analytics and Hybrid Approach*

AUTHOR: *Ms. Shreya V. Bhosale, Mr. Prasanna G. Dhemey, Ms. Ruchita A. Thombare, Ms. Anagha N. Chaudhari*

YEAR: 2018

TECHNIQUE(S): *Data Analytics and Hybrid Approach*

ABSTRACT:

Agricultural data is being produced constantly and enormously. As a result, agricultural data has come in the era of big data. Smart technologies contribute in data collection using electronic devices. In our project we are going to analyze and mine this agricultural data to get useful results using technologies like data analytics and machine learning and this result will be given to farmers for better crop yield in terms of efficiency and productivity.

AUTHOR: *E. Manjula, S. Djodiltachoumy*

TITLE: *A Model for Prediction of Crop Yield*

YEAR: 2017

ABSTRACT:

Data Mining is emerging research field in crop yield analysis. Yield prediction is a very important issue in agricultural. Any farmer is interested in knowing how much yield he is about to expect. In the past, yield prediction was performed by considering farmer's experience on particular field and crop. The yield prediction is a major issue that remains to be solved based on available data. Data mining techniques are the better choice for this purpose. Different Data Mining techniques are used and evaluated in agriculture for estimating the future year's crop production. This research proposes and implements a system to predict crop yield from previous data. This is achieved by applying association rule mining on agriculture data. This research focuses on creation of a prediction model which may be used to future prediction of crop yield. This paper presents a brief analysis of crop yield prediction using data mining technique based on association rules for the selected region i.e district of Tamil Nadu in India. The experimental results shows that the proposed work efficiently predict the crop yield production.

TITLE*: Analysis Of Crop Yield Prediction Using Data Mining Technique To Predict Annual Yield Of Major Crops*

AUTHOR*: B. Devika, B. Ananthi*

YEAR: 2018

ABSTRACT:

India is generally an agricultural country. Agriculture is the single most important provider to the Indian economy. Agriculture crop production depends on the season, organic, and monetary cause. The prognostication of agricultural yield is challenging and pleasing task for every nation. Nowadays, Farmers are hostile to produce the yield because of erratic climatic changes and scarcity of water resource. The main objective is collecting agricultural data which can be stored and analyzed for useful crop yield forecasting. To predict the crop yield with the help of data mining technique, advanced methods can be introduced to predict crop yield and it also helps the farmer to choose the most suitable crop, thereby improving the value and gain of the farming area.