

1)Rice Crop Yield Prediction using Data Mining

DakshayiniPatil ,Dr.M.S.Shirdhonkar 2017

Discussed various data mining techniques utilized for prediction of rice crop yield for the state of Maharashtra, India. WEKA tool was applied in dataset processing.

2)A Survey on Crop Yield Prediction based on Agricultural Data

Dhivya B H, Manjula R, Siva Bharathi S, Madhumathi R/ 2017

Presented a survey on the different algorithms applied in the assessment and prediction of crop yield. Discussed about the mechanism of knowledge discovery in agricultural data mining.

3) A Study on Various Data Mining Techniques for Crop Yield Prediction

Yogesh Gandge, Sandhya 2017

Discussed various data mining techniques employed for predicting the crop yield and signifies the importance of accurate data extraction methods of big data analytics.

4) Big Data for weed control and crop protection

F K Van Evert, S Fountas, D Jakovetic, V Crnojevic, I Travlos & C Kempenaar/ 2017

Outlined Big Data analytics models with numerical algorithms applied. Represent the importance of reforming the mined data in the form of understandable information to the farmers. Discussed about various advances, tools and algorithms applied in transforming the data into easily understandable information to the farmers and thrown a light on success story of Netherlands in achieving the maximum crop yield and their smart farming practices.

5) The Impact of Data Analytics in Crop Management based on Weather Conditions

Swarupa Rani A/ 2017

Discussed the application of mathematical model like fuzzy logic designs in optimization of the crop yield, artificial neural networks in validation studies, genetic algorithms designs in accessing the fitness of the model applied, decision trees, and support vector machines to study soil, climate conditions and water regimes related to crop growth and pest management in agriculture.

6) A Study on Crop Yield Forecasting Using Classification Techniques

R.Sujatha, Dr.P.Isakki Devi/ 2016

Discuss the importance of comparing previous agricultural data with present to identify optimum condition favor enhanced crop yield. Envisaged the importance of best crop selection depending on the season and the climatic factors which supports enhanced crop yield.

7) Prediction of Crop Yield using Regression Analysis

Swarupa Rani A/ 2017

Regression analysis was carried out to find the relationship among the parameters i.e Area under Cultivation (AUC), Annual Rainfall (AR) and Food Price Index (FPI) which influences the final crop yield and reported that the crop yield principally depends on the Annual Rainfall (AR).

8) Data requirements for reliable crop yield simulations and yield- gap analysis

Patricio Grassinia, Lenny G.J. van Bussel, Hugo de Groote, Martin K. van Ittersumb, Kenneth G. Cassman/ 2015

Presented a case study (Nebraska - USA and at a national scale for Argentina and Kenya) on the application of an explicit rationale design approach in identifying the data sources which simulates Crop (maize) yield and also helps in quantifying the maize yield gaps.

9) Prediction of crop yield using big data

Wu Fan, Chen Chong, Guo Xiaoling, Yu Hua Wang Juyun/ 2015

Developed a novel model i.e Nearest neighbors modeling to calculate and predict the yield of crop depends on the available Big data sets.

10) The use of satellite data for crop yield gap analysis

David B. Lobell/ 2013

Discussed the use of remote sensing technology to identify and measure the causes of yield gaps and the assess the impact on the overall crop yield. Reported very simple methodologies to measure the yield difference with respect to season, environment and the land use.

11) Yield gap analysis with local to global relevance-A review

Martin K. van Ittersuma, Kenneth G. Cassman^b, Patricio Grassini^b, Joost Wolfa, Pablo Tittonell, Zvi Hochman^d

Discussed about the various methods used on quantifying the yield gaps at local-to-global ratio. Reported few standard operation methods, employed in quantify the crop yield potential on the data collected from the farmers of western Kenya, Nebraska (USA) and Victoria (Australia). Study recommended for the use of accurate and current yield data,

with calibrated and validated crop models and up scaling methods in the prediction of crop yield.

12) A tool for analysing vegetable crops data from a greenhouse using data mining techniques.

Ponce-Guevara, K. L., Palacios-Echeverria, J. A., Maya-Olalla, E., Dominguez Limaico, (2017).

algorithm, which uses a decision tree based on the data entropy is used and results are visualized graphically.

13) Using hybrid support vector regression to predict agricultural output.

Jheng, T.-Z., Li, T.-H., Lee, C.-P. (2018).

Using hybrid support vector regression to predict agriculture tural output. Hybrid SVR models are used for prediction

14) Estimation of Arecanut Yield in Various Climatic Zones of Karnataka using Data Mining Technique:

Manjunatha, M., Parkavi, A. (2018).

A Estimation of Arecanut Yield in Various Climatic Zones of Karnataka using Data Mining Technique: A Survey. Classified using fuzzy logic, decision trees, Multiple Linear Regression and Random Forest algorithm to predict the crop yield

15) Agricultural production output prediction using Supervised Machine Learning techniques.

Shakoor, M. T., Rahman, K., Rayta, S. N., Chakrabarty, A. (2017).

Agricultural production output prediction using Supervised Machine Learning techniques” Decision Tree Learning-ID3 (Iterative Dichotomiser 3) and K-Nearest Neighbors Regression algorithms are used for prediction

