DATA ANALYTICS ON ESTIMATE THE CROP YIELD

LITREATURE SURVEY

SL	TITTLE OF THE PAPER	AUTHORS/YEAR OF PUBLICATION	OBSERVATION
1.	Rice Crop Yield Prediction using Data Mining Techniques: An Overview	Dashain Patil,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 the 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	Critically discussed about the challenges faced and the profound opportunities lies in the Big Data analytics in agriculture: 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 in to easily understandable information to the framers and thrown a light on success story of Netherlands in achieving the maximum crop yield and their smart forming practices. Also discussed about the control of invasive, parasitic and herbicide-resistant weeds to improve the overall crop yield applying Big Data analytics.
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 favour 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	V. Sellamand E. Poovammal/ 2016	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	How good is good enough?Data requirements for reliable crop yields mutations and yield-gap analysis	Patricio Grassinia, Lenny G.J. van Bussel, Justin Van Warta, Joost Wolf,Lieven Claessens,d, Haishun Yanga, Hendrik Boogaarde, 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. Suggested the robust guidelines for analyzing the crop yield gaps, accessing the climate and land use changes at global level to address the issues of crop yield.
9.	Prediction of crop yield using big data	Wu Fan, Chen Chong, Guo Xiaoling, Yu Hua Wang Juyun/ 2015	Developed a novel model that is Nearest neighbours modelling 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. Cassmanb, Patricio Grassinib, Joost Wolfa, Pablo Tittonell, Zvi Hochmand	Discussed about the various method 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).