

ANALYSIS OF CROP YIELD PREDICTION USING DATA MINING TECHNIQUES

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Abstract

Agrarian sector in India is facing rigorous problem to maximize the crop productivity. More than 60 percent of the crop still depends on monsoon rainfall. Recent developments in Information Technology for agriculture field has become an interesting research area to predict the crop yield. The problem of yield prediction is a major problem that remains to be solved based on available data. Data Mining techniques are the better choices for this purpose. Different Data Mining techniques are used and evaluated in agriculture for estimating the future year's crop production. This paper presents a brief analysis of crop yield prediction using Multiple Linear Regression (MLR) technique and Density based clustering technique for the selected region i.e. East Godavari district of Andhra Pradesh in India.

Keywords: Agrarian Sector, Crop Production, Data Mining, Density based clustering, Information Technology, Multiple Linear Regression, Yield Prediction.

1. INTRODUCTION

Agriculture is the backbone of Indian Economy. In India, majority of the farmers are not getting the expected crop yield due to several reasons. The agricultural yield is primarily depends on weather conditions. Rainfall conditions also influences the rice cultivation. In this context, the farmers necessarily requires a timely advice to predict the future crop productivity and an analysis is to be made in order to help the farmers to maximize the crop production in their crops.

Yield prediction is an important agricultural problem. Every farmer is interested in knowing, how much yield he is about expect. In the past, yield prediction was performed by considering farmer's previous experience on a particular crop. The volume of data is enormous in Indian agriculture. The data when become information is highly useful for many purposes.

Data Mining is widely applied to agricultural problems. Data Mining is used to analyze large data sets and establish useful classifications and patterns in the data sets. The overall goal of the Data Mining process is to extract the information from a data set and transform it into understandable structure for further use.

In this paper the main aim is to create a user friendly interface for farmers, which gives the analysis of rice production based on available data. Different Data mining techniques were used to predict the crop yield for maximizing the crop productivity.

2. LITERATURE SURVEY

From the research article [3], the researcher express that large amount of data which is collected and stored for analysis. Making appropriate use of these data often leads to considerable gains in efficiency and therefore economic advantages.

There are several applications of Data Mining techniques in the field of agriculture. The researchers implemented [4] K-Means algorithm to forecast the pollution in the atmosphere, the K Nearest Neighbour is applied [12] for simulating daily precipitations and other weather variables and different possible changes of the weather scenarios are analyzed [14] using Support Vector Machines.

Soil profile descriptions were proposed [15] by the researcher for classifying soils in combination with GPS based technologies. They were applied K-Means approach for the soil classification. In a similar approach, crop classifications using hyper spectral data was carried out [1] by adopting one of the data mining approach i.e. Support Vector Machines. One of the researcher used [9] an intensified fuzzy cluster analysis for classifying plants, soil and residue regions of interest from GPS based colour images.

In the agricultural science, clustering techniques are found in grading [5] apples before marketing. Weeds were detected [13] on precision agriculture. The researchers worked [8] on rainfall variability analysis and its impact on crop productivity. The effect of observed seasonal climatic conditions such as rainfall and temperature variability on crop yield prediction was considered [7] through an empirical crop model. Furthermore, there are two

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Modern Techniques for Agricultural Disease Management and Crop Yield Prediction Pradeep, N., Kautish, Sandeep, Nirmala, C.R., Goyal, Vishal, Abdellatif, Sonia, 2019-08-16 Since agriculture is one of the key parameters in assessing the gross domestic product GDP of any country it has become crucial to transition from traditional agricultural practices to smart agriculture New agricultural technologies provide numerous opportunities to maximize crop yield by recognizing and analyzing diseases and other natural variables that may affect it Therefore it is necessary to understand how computer assisted technologies can best be utilized and adopted in the conversion to smart agriculture Modern Techniques for Agricultural Disease Management and Crop Yield Prediction is an essential publication that widens the spectrum of computational methods that can aid in agriculture disease management weed detection and crop yield prediction Featuring coverage on a wide range of topics such as soil and crop sensors swarm robotics and weed detection this book is ideally designed for environmentalists farmers botanists agricultural engineers computer engineers scientists researchers practitioners and students seeking current research on technology and techniques for agricultural diseases and predictive trends

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Kaiser,Juanying Xie,Vijay Singh Rathore,2021-07-05 This book contains the best selected research papers presented at ICTCS 2020 Fifth International Conference on Information and Communication Technology for Competitive Strategies The conference was held at Jaipur Rajasthan India during 11 12 December 2020 The book covers state of the art as well as emerging topics pertaining to ICT and effective strategies for its implementation for engineering and managerial applications This book contains papers mainly focused on ICT for computation algorithms and data analytics and IT security Advances

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Table of Contents Analysis Of Crop Yield Prediction Using Data Mining Techniques

1. Understanding the eBook Analysis Of Crop Yield Prediction Using Data Mining Techniques
 - The Rise of Digital Reading Analysis Of Crop Yield Prediction Using Data Mining Techniques
 - Advantages of eBooks Over Traditional Books
2. Identifying Analysis Of Crop Yield Prediction Using Data Mining Techniques
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Analysis Of Crop Yield Prediction Using Data Mining Techniques
 - User-Friendly Interface
4. Exploring eBook Recommendations from Analysis Of Crop Yield Prediction Using Data Mining Techniques
 - Personalized Recommendations
 - Analysis Of Crop Yield Prediction Using Data Mining Techniques User Reviews and Ratings
 - Analysis Of Crop Yield Prediction Using Data Mining Techniques and Bestseller Lists
5. Accessing Analysis Of Crop Yield Prediction Using Data Mining Techniques Free and Paid eBooks
 - Analysis Of Crop Yield Prediction Using Data Mining Techniques Public Domain eBooks
 - Analysis Of Crop Yield Prediction Using Data Mining Techniques eBook Subscription Services
 - Analysis Of Crop Yield Prediction Using Data Mining Techniques Budget-Friendly Options
6. Navigating Analysis Of Crop Yield Prediction Using Data Mining Techniques eBook Formats
 - ePub, PDF, MOBI, and More
 - Analysis Of Crop Yield Prediction Using Data Mining Techniques Compatibility with Devices
 - Analysis Of Crop Yield Prediction Using Data Mining Techniques Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Analysis Of Crop Yield Prediction Using Data Mining Techniques
 - Highlighting and Note-Taking Analysis Of Crop Yield Prediction Using Data Mining Techniques
 - Interactive Elements Analysis Of Crop Yield Prediction Using Data Mining Techniques

8. Staying Engaged with Analysis Of Crop Yield Prediction Using Data Mining Techniques
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Analysis Of Crop Yield Prediction Using Data Mining Techniques
9. Balancing eBooks and Physical Books Analysis Of Crop Yield Prediction Using Data Mining Techniques
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Analysis Of Crop Yield Prediction Using Data Mining Techniques
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Analysis Of Crop Yield Prediction Using Data Mining Techniques
 - Setting Reading Goals Analysis Of Crop Yield Prediction Using Data Mining Techniques
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Analysis Of Crop Yield Prediction Using Data Mining Techniques
 - Fact-Checking eBook Content of Analysis Of Crop Yield Prediction Using Data Mining Techniques
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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