Crop Yield Prediction Based on Weather

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Abstract: *The agriculture sector is a one of the most important industries in the Indian economy which means the huge employer. Countries 90% of the Peoples depends on the agriculture for their livelihood. In India 60.43% of the total agriculture land is used for cultivation according to the World bank collection. India's worldwide rank 2 in farms output. The prediction will help the farmers to decide Which crop will grow to get the maximum yield by considering the factors like rainfall climate weather temperature soil.[9].*

Keywords: Crop yield prediction, weather prediction, fertilizer prediction, Agriculture, System Architecture.

I. INTRODUCTION

Agriculture is the backbone of a countries economy major geographical factors affecting the crop yield are the soil whether ,fertilizer ,climate temperature which are used for that crop. Crop and prediction is one of the challenging problem in Precision agriculture and many models have been propose individually. The problem required the several data set crop and depends on many different factors such as rainfall ,seeds variety regions, soil type, water.[8]

To get an overview what we have been done on in crop in prediction we perform a systematic predication method. The prediction will have the farmers to decide which crop they have to grow on that particular condition, that will help the farmers to increase their economic condition.

II. PROBLEM STATEMENT

Predicting end of the crop using online crop production method to implement system we focus on the different states of India like Maharashtra, Goa, Karnataka, Gujarat. As the climate change from one place to another it was necessary to get data at State level, District level, Taluka level. This data about the crops are rather from the various government websites.[9]

III. METHODOLOGY

Predicting crop yield is crucial at two addressing emerging challenging in a food security particularly in an aera of global climatic change.

Accurate yield prediction not only help farmers make inform economic and management decision but also support famine. The factors like rainfall weather fertilizers quality of a seeds types of soil region temperature etc geographical factors are completely depend on crop production. The factors place important role in increasing online crop production in agriculture field it gives total accuracy.

IV. EXISTING SYSTEM

Due to revolution in the industrialisation in early years the economic contribution of the agriculture sector in India's GDP is decline with the countries broad economic growth.[9] The problem is that Indian agriculture is a facing integration of a technology to be in desired output with the new technologies.

V. PROPOSED SYSTEM

This paper focuses on the practical application of online crop production and its quantification on crop yield prediction, whether predication, fertilizers predictions. Prediction is a determine by considering all the features in contracts with usual trend of determining the prediction considering future.
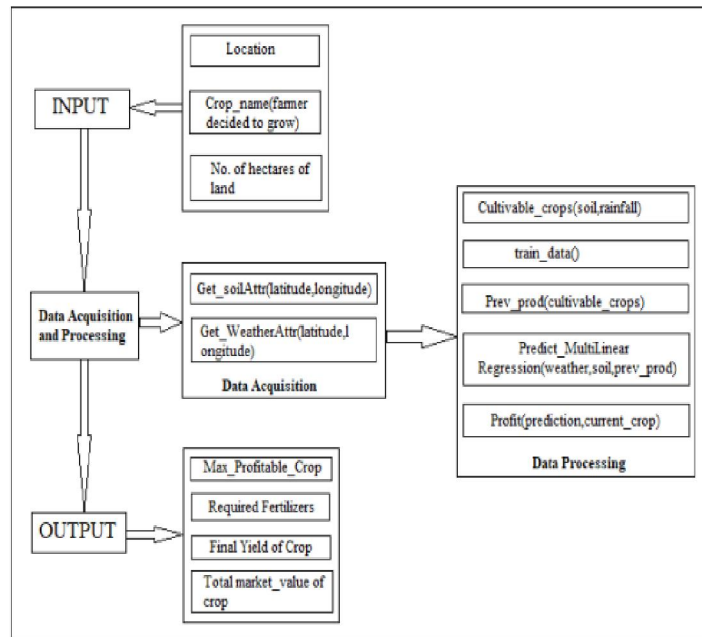
Figure: Block Diagram of System

Figure shows the System Architecture. The first step is to login or register to the application. At the next step, three options are available .i.e., Predict, Fertiliser and Logout. The user may select one of the three options and proceed further. Under Predict, the system offers two options that depend on whether the user knows what to plant already or is yet to decide the crop. The inputs are taken from the user in either case and the predicted value is given to the user. When the Fertilizer Module is selected, the user gets a pop up message that says whether or not they can use the fertilizer and it may or may not rain for the next 15 days. Last is the Logout that logs the user out and takes them back to the login/Register Page.
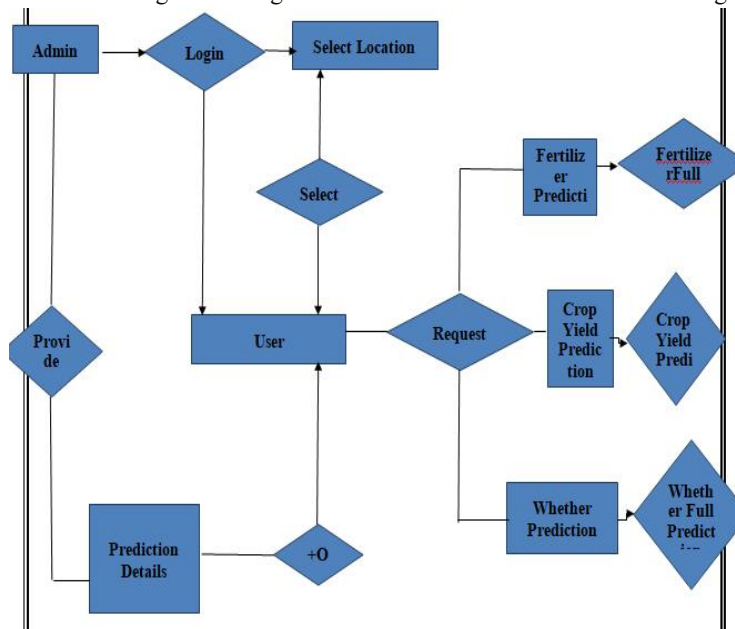

Figure: Flow Chart

VI. CONCLUSION

This system is a proposed to deal with the increasing rate of farmer suicide and to have the farmers by giving the accurate prediction to make them stronger.The system tracks The Uses location and pages needed information from the back end with on the location does the user needs to provide Limited information like soil type season District state Taluka and Area.

VII. ACKNOWLEDGEMENT

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