



# AGRICULTURAL CROP RECOMMENDATION SYSTEM USING MACHINE LEARNING

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**Abstract:** The concept of this paper is to implement the crop selection method so that this method helps in solving many agriculture and farmers problems. This improves our Indian economy by maximizing the yield rate of crop production. Different types of land condition. So the quality of the crops are identified using ranking process. By this process the rate of the low quality and high quality crop is also notified. Crop yield production value updation has a positive practical significance for guiding agricultural production and for notifying the change in market rate of crop to the farmer.

## INTRODUCTION

This open attitude determines the degree and scope of information sharing. Using web-technologies like html and css we build the web application, we create dataset by gathering data from multiple resources and place them in place which is used to predict the price of the crop and results are subjected to non-linear test later priorities are set and rankings are given to the list of crops. Place information in our application and share that information to agriculturists whose data is collected and stored in the mysql server. Agricultural information plays a multifaceted role, interacting with and influencing various aspects of agricultural activities. This underscores its potential to inform decision-making related to land use, labor, livestock, capital, and management. So that agriculturists no need to go to near by towns and cities to know the updated information. We will be machine learning algorithms to predict the price of the crop for the next two months.

## LITERATURE SURVEY

1. **Paper Name:** A Review on Data Mining Techniques for Fertilizer Recommendation 2018.

**Author:** Jignasha M. Jethva, Nikhil Gondaliya, Vinita Shah

**Abstract :** This paper gives overview of various data mining frameworks used on cultivating soil dataset for fertilizer recommendation. The standard issue existing among the Indian agriculturists choose approximate amount of fertilizers and add them manually

2. **Paper Name:** AgroNutri Android Application, 2016.

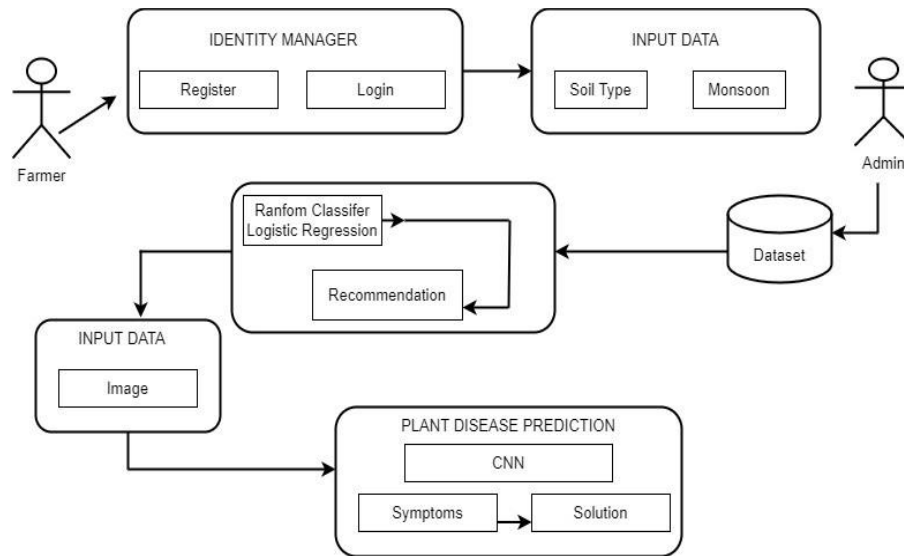
**Author:** S. Srija, R. Geetha Chanda, S. Lavanya, Dr. M. Kalpana Ph.D

**Description :** The idea is to calculate the measure of NPK composts to be applied depend on the blanked proposal of the crop of interest. This application works depend on the product chosen by the farmer and that is taken as input, thus providing the farmers.

## SYSTEM ARCHITECTURE

The System architecture consist 2 modules first is farmers or other users which will log in into the system by registering their details. As soon as registration is completed, the admin will store their details in DB. The farmer will enter the pH, monsoon, etc type as an input if the given data is trained the RFA will make a decision to classify the crops. This classification is based on the type of soil.

In next module, user or farmer can enter image of diseased leaf as an input and after image processing and classification it will predict the disease and give some information of the disease and also will recommend remedies to cure it.



## CONCLUSION

The crop recommendation system recommends crops to the user based on the data provided by the user. Based on the input, a suitable crop will be recommended which helps the farmers in choosing the appropriate crop for their agriculture land which in turn will increase the yield and the profit. Fertilizer recommendation system recommends a fertilizer plan to optimize the amount of fertilizers applied for suggested crops. Efficient detection and suggestion of remedies for plant disease reduces the risk of crop failure, hence, higher yield increases farmers' economic benefits.

## REFERENCES

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4. Poojan Panchal, Vignesh Charan Raman, "Plant Diseases Detection and Classification using Machine Learning Models.", 978-1-7281-2619-7/19 IEEE (2019)