FERTILIZER RECOMMENTATION USING DISEASE PREDICTON

*** INTRODUCTION**

Fertilizer Recommendation
System for Disease Prediction is a simple ML and
DL base website which recommends the best crop
to grow, fertilizers to use and diseases caught by
your crops

*** PROBLEMSTATEMENT**

In India, the agriculture industry is extremely vital and crucial for economic and social development and jobs. In India, the agriculture sector provides a living for almost 48% of the population. As per the 2019-2020 economic

survey, an Indian farmer's median wage in 16 states is Rupees 2500. Most of the Indian population depends on agriculture for their livelihood. Agriculture gives opportunity of employment to the village people to develop a country like India on large scale and give a push in the economic sector. The majority of farmers face the problem of planting an inappropriate crop for their land based on a conventional or nonscientific approach. This challenging task for a country like India, where agriculture feeds approximately 42% of the population. And the outcomes for the farmer of choosing the wrong crop for land is moving towards metro city for livelihoods, suicide, quitting the agriculture and give land on lease to industrialist or use for the non-agriculture purpose. The outcome of wrong crop selection is less yield and less profit.

*** PROBLEM SOLUTION**

The solution to the problem Machine learning, Which is one of application Artificial the of Intelligence ,is being used to implement the proposed system. Crop recommendation is going to recommend you the best crop you can grow in your land as per the soil nutrition value and along with as per the climate in that region. And recommending the best fertilizer for every particular crop is also a challenging task. And the other and most important issue is when a plant gets caught by heterogeneous diseases that effect on less amount agriculture production of and compromises with quality as well. To overcome all these issues this recommendation has been Nowadays a proposed. lot of work being research and is implemented in the smart modern agriculture domain. Crop recommendation is characterized by soil database comprised Nitrogen, Phosphorus, potassium. The ensembles technique is used to build a recommendation model that combines the prediction of multiple learning. machine Models recommend the right crop based on soil value and the best fertilizer to use.

***THE BENIFICIAL USERS**

Farmer
Common People

Seller

Buyer

Employees

Industrial People

***VALUE FOR SOCIETY**

Consumers Farming is one of the major sectors that influences a country's economic growth. In Country like India, majority of the population is dependent on agriculture for their livelihood. Many new technologies, such as Machine Learning and Deep Learning, are being implemented into agriculture so that it is easier for farmers to grow and maximize their yield.

***VALUE FOR ENVIRONMENT**

➤ In the crop recommendation application, the user can provide the soil data from their side and the application will predict which crop should the user grow.

- fertilizer > For the recommendation application, the user can input the soil data and the type of crop they growing, and the are application will predict what the soil lacks or has excess of and will recommend improvements.
- > For the last application ,that is the plant disease prediction application, the user can input an image of a diseased plant leaf, and the application will predict what disease it is and give will also little а background about the disease and suggestion to cure These all are to improve the Agriculture, that's slightly reduces the poverty, climatic condition, soil erosion etc...

***VALUE FOR BUSINESS**

Predicting the fertilizers, analyzing the disease in a tap makes the life of farmers easy with minimal subscriptions would an provide an acceptable return for the organization. This action adds a lots of value to the company and the business in society.

***FORMFACTORS**

Our fertilizer recommendation system for disease prediction is in the form of web application to provide this valuable service to the environment and society.