# INTRODUCTION

IBM FERTILIZER RECOMMENDATION USING

DISEASE PREDICTON

# PROBLEM STATEMENT



In India, the agriculture industry is extremely vital and crucial for economic and social development and jobs. In India, the agricultural 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 an 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 non-scientific approach. This is a 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,

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# PROBLEM SOLUTION

The solution to the problem is Machine learning, which is one of the applications of Artificial 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 of agriculture production and compromises with quality as well. To overcome all these issues this recommendation has been proposed . Nowadays

a lot of research and work is being implemented in the smart and modern agriculture domain. Crop recommendation is characterized by a soil database comprised of Nitrogen, Phosphorus, potassium. The ensembles technique is used to build a recommendation model that combines the prediction of multiple machine learning. Models to recommend the right crop based on soil value and the best fertilizer to use.

# THE BENIFICIAL USERS

IBM FERTILIZER RECOMMENDATION USING DISEASE PREDICTON

# VALUE FOR SOCIETY

**VALUE FOR BUSINESS**

**ConsumerFsarming is one of the major sectors that influences a**

Predicting the fertilizers, Analyzing the disease in a tap makes the life

**economic growItnh.country like India, majority of the population**

of farmers easy with minimal subscriptions would provide an

dependent on agriculture for their livelihood. Many new

acceptable return for the organization. This action adds a lot of value

such as Machine Learning and Deep Learning, are being into agriculture so that it is easier for farmers to grow their yield.

to the company and the business in society.

# FORM FACTORS

Our Fertilizer Recommentation system for disease Prediction is in the

# VALUE FOR ENVIRONMENT

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

 For the fertilizer recommendation application, the user the soil data and the type of crop they are growing, application will predict what the soil lacks or has excess recommend improvements.

 For the last application, that is the plant disease application, the user can input an image of a diseased and the application will predict what disease it is and a little background about the disease and suggestions

These all are to improve the Agrictuhlatut’rsesl,ightly reduces the poverty, climatic condition, soil erosion etc ...

form of web application to provide this valuable service to the

environment and society.

# IT IS AN OPPOURTUNITY ? (By public review)

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