FERTILIZER RECOMMENTATION SYSTEM FOR DISEASE PREDICTON

★ INTRODUCTION

A technique for recommending fertilizers in cases of illness A straightforward website called Prediction uses machine learning and deep learning to suggest the best crops to produce, the fertilizers to use, and the illnesses your crops are likely to contract.

★ PROBLEM STATEMENT

The agriculture sector is incredibly important and necessary for economic, social, and employment growth in India Nearly 48% of the people in India relies on the agriculture industry for their livelihood. According to the 2019–2020 Economic Survey, the median salary for Indian farmers is Rs. 2500 in 16 states.

The majority of Indians rely on agriculture for their livelihood. Villagers in India are given the chance to work in agriculture, which helps the country's economy grow and expand on a vast scale Most farmers struggle with the issue of selecting the wrong crop for their plot of land based on a conventional or non-scientific approach**.** For a nation like India, where agriculture provides food for over 42% of the population, this is a difficult undertaking .And the consequences for the farmer of selecting the incorrect crop for the land include migrating to a big city for work, committing suicide, giving up farming, and leasing out the property to an industrialist or using it for purposes unrelated to agriculture. The result of poor crop selection is a lower yield and lower revenue.

In accordance with the soil nutrition value and local climate, crop suggestion will advise you on the ideal crop to cultivate on your property. It's also difficult to provide the optimal fertilizer for each specific crop. Additionally, the most significant problem is when a plant contracts a disease that affects both the quantity and quality **of**

★ IDEA DESCRIPTION

One of the things that can solve these issues is machine learning Artificial intelligence**.**

agriculture produce This suggestion has been made in order to resolve all of these problems. In the field of smart and contemporary agriculture, a lot of study and effort is now being done. A nitrogen, phosphorus, and potassium-rich soil database serves as the basis for crop recommendations. A recommendation model is created using the ensembles approach by combining the predictions of several machine learning techniques. models to suggest the best crop based on the value of the soil and the usage of the best fertilizer.

UNIQUENESS

Farmer
Ordinary People
Sellers
Buyers
Employees
Industrial People

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★ 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.

SOCIAL IMPACT

- The crop suggestion program allows the user to input their own soil data and predicts which crop the user should produce.
- The user may input soil information and the sort of crop they are growing into the fertilizer suggestion application, and the program will anticipate what the soil lacks or has too much of and suggest adjustments.
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★ BUISNESS MODEL

Farmers' lives may be made easier with the help of predictive fertilizer analysis and disease analysis in a tap, and the organization would get a respectable return on its investment. This deed greatly enhances the company's and the business's standing in society.

★ FORM FACTORS

Our disease-specific fertilizer recommendation system The prediction is in the form of a web application to offer this beneficial service to society and the environment.

★ IT IS AN OPPOURTUNITY ? (By public review)