

Project Design Phase-I
Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID13271
Project Name	Project - Fertilizer recommendation system for disease prediction
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Agriculture is the main aspect of country development. Many people lead their life from agriculture field, which gives fully related to agricultural products. Plant disease, especially on leaves, is one of the major factors of reductions in both quality and quantity of the food crops. In agricultural aspects, if the plant is affected by leaf disease then it reduces the growth of the agricultural level.
2.	Idea / Solution description	The solution to the problem is Machine learning, which is one of the applications of Artificial Intelligence. 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. Machine Learning techniques 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
3.	Novelty / Uniqueness	In Agricultural Aspects, if the plant is affected by leaf disease then it reduces the growth and productiveness.
4.	Social Impact / Customer Satisfaction	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.
5.	Business Model (Revenue Model)	Predicting the fertilizers, Analyzing the disease in a tap makes the life of farmers easy with minimal subscriptions would provide an acceptable return for the organization. This action adds a lot of value to the company and the business in society.

6.	Scalability of the Solution	Our Fertilizer Recommendation system for disease Prediction is in the form of web application to provide this valuable service to the environment and society
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Beneficial Users :

- ⦿ Farmer
- ⦿ Common People
- ⦿ Seller
- ⦿ Buyer
- ⦿ Employees
- ⦿ Industrial People

Advantages of Proposed System :

- ⦿ Predicting the better crop is the ultimate Aim of the project.
- ⦿ Early detection of problems and management of that problems can help the farmers for better crop yield.
- ⦿ For the better understanding of the crop yield, we need to study of the huge data with the help of artificial intelligence so it will give the accurate prediction of crop and suggest the farmer for a better crop