

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID43319
Project Name	Project – FERTILIZER RECOMMENDATION USING 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)	In India , the agriculture industry is extremely vital and crucial which provides a living for almost 48% of the population. As per the economic survey of 2020 , an Indian farmer's median wage is 16 states in rupees 2500. The majority of the farmers face the problem of planting an inappropriate crop for their land based on the conventional or non-scientific approach. This is a challenging task for any county where agriculture feeds approximately more than 40% of the population. The outcome for the farmers of choosing the crop for land in moving towards the metro city for livelihoods , suicide , quitting the agriculture and given land on lease to industrialist or use for the non-agriculture purposes. The outcome of the wrong crop selection is less yield and less profit.
2.	Idea / Solution description	The solution to the problem is developing a machine learning system which is used to implement the proposed system . Crop recommendation is going to recommend the best crop that can be

		grown as per the nutrition value of the soil along with climate and region. To overcome all these issues , crop recommendation is been characterised by a soil database. The proposed technique is used to build a recommendation model that combines both the prediction disease and to also recommend the right crop based on the soil value and best fertilizer to use.
3.	Novelty / Uniqueness	Standard recommendation of the fertilizers and factual disease prediction
4.	Social Impact / Customer Satisfaction	The system help to improve the agriculture that slightly reduced the poverty,climatic condition , soil erosion etc.,
5.	Business Model (Revenue Model)	Analyzing the disease and Predicting the fertilizers makes the life of farmers easy with minimal subscription would provide and 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	Data is analyzed early with the help of cloud rendering which reduces the loss