

Project Design Phase-I Proposed Solution

Date	23 September 2022
Team ID	PNT2022TMID40513
Project Name	Estimate the crop yield using data analytics
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
•	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> Design, develop, and implement the training model using various input data. So, using machine learning techniques, the machine will be able to learn the features and extract the crop yield from the data. Machine Learning based on prior crop prediction, soil quality analysis to achieve high crop yield through out technology solution. The main objectives of this project is to predict crop yield which can be extremely useful to farmers in planning for harvest and sale of grain harvest.
•	Idea / Solution description	<ul style="list-style-type: none"> The best solution to avoid this problem is to avoid fragmenting the land. However, when that is not possible, the next best option is to have a system for zone detection and geotagging. Satellite imagery data can monitor soil conditions for identifying the best scenarios for crop production.
•	Novelty / Uniqueness	<ul style="list-style-type: none"> Farming is Good for Your Health. Being a Farmer is Challenging and Stimulating Work. It Provides a Source of Income in Rural Areas. Farm Work Helps Develop Younger Generations.

		<ul style="list-style-type: none"> Farming Can Help the Environment Thrive
<ul style="list-style-type: none"> 	Social Impact / Customer Satisfaction	Agriculture impacts society in many ways, including: supporting livelihoods through food, habitat, and jobs; providing raw materials for food and other products; and building strong economies through trade
<ul style="list-style-type: none"> 	Business Model (Revenue Model)	Agriculture business involves not only farming but production, management, marketing of agricultural commodities, livestock and crops, etc.
<ul style="list-style-type: none"> 	Scalability of the Solution	<ul style="list-style-type: none"> By knowing the type and strength of their farmland soil. Getting right seeds. Sowing in the right time. Water supply/monsoon. Harvesting at in right time and. Marketing for good prize.