

**Project Design Phase-I**  
**Proposed Solution Template**

Date	22 OCTOBER 2022
Team ID	PNT2022TMID41618
Project Name	Project - Estimate the Crop Yield using Data Analytics
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)	Feeding a growing population, loss of agricultural land and the decrease in the varieties of crops and livestock produced. Crop production in india is one of the most important sources of income and India is one of the top countries to produce crops.
2.	Idea / Solution description	Increases in yield, better productivity through the efficient utilization of resources, reduction in crop losses, and ensuring that farmers receive fair prices for output. Logistic regression is another supervised learning algorithm which is used to solve the classification problems.
3.	Novelty / Uniqueness	Regression Analysis can be defined as a structured approach which stresses on the analysis of data for the research purpose on decision making and problem solving. Primarily concerned with a need for increasing production (of food, fodder, secondary products) as well as enhancing quality (of produce, production process, growing conditions). Then season to gain more profit from the crop yield.
4.	Social Impact / Customer Satisfaction	India holds the second largest agricultural land in the world, with 20 agro-climate regions and 157.35 million hectares of land under cultivation. Climate is the most important determinant of agricultural production because every crop needs a different climatic condition.
5.	Business Model (Revenue Model)	This is the typical approach to expansion where assets are acquired and added to the current business. Cooperate and acquire knowledge for growing better price yielding crops. share infrastructure like storage. negotiate for better crop prices with buyers. negotiate for better input prices with sellers.
6.	Scalability of the Solution	In an era when supply chain disruptions, natural resource scarcity, and a growing world population threaten food security, this question has undoubtedly crossed every farmer's mind.