

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID20086
Project Name	Estimation of 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)	India faces bottlenecks in increasing crop production because of climatic variations. In agriculture, it has become increasingly difficult to meet desired crop yield targets. There are a number of factors to consider that directly affect the production and productivity of crops.
2.	Idea / Solution description	1. A major source of income in India is crop production, and India is among the top producers of crops. 2. The purpose of this project is to create a dashboard that will allow us to analyse key aspects of crop production in India by going through it and gathering most of the insights we need to know about the subject. 3. Knowing the crops to be sown in each season to ensure farmers know what to do
3.	Novelty / Uniqueness	1. The development of interactive chatbots. 2. A visually appealing dashboard. 3. Farmers are provided with expert advice.

4.	Social Impact / Customer Satisfaction	<p>1.A key purpose of this project is to reframe government policies to benefit farmers in relation to crop insurance.</p> <p>2.The farmers can track previous crop yields with this information.</p>
5.	Business Model (Revenue Model)	<p>1.Farmer-entrepreneur supply chain operation.</p> <p>2.It facilitates the scheduling of projects for companies.</p>
6.	Scalability of the Solution	<p>1.Farmers with a large farm scale can avail of this service.</p> <p>2.In the future, the dataset can be updated to meet the needs of the organization.</p>