Project Design Phase-I Proposed Solution Template

Date	30 September 2022
Team ID	PNT2022TMID25946
Project Name	Estimate the crop yield using data analytics
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be	With the changing of climate, without
	solved)	caring much about soil replenishing and due
		to several crop diseases, agriculture faces
		increasing problems leading to considerable
		yield losses of crops.
2.	Idea / Solution description	Crop yeild predicition is of great importance
		to global food production. The four most
		important factors that influence crop yield
		are soil fertility, availability of water,
		climate, and diseases or pests. Estimation of
		these, will help to increase the crop
		production. An accurate crop yield
		prediction model can help farmers to decide
		on what to grow and when to grow.
3.	Novelty / Uniqueness	Great dashboards are clear, intuitive, and
		customizable. They display information
		clearly and efficiently with several
		visualizations. They show trends and
		changes in data over time. The most
		important widgets and data components are
		effectively presented in a limited space.
4.	Social Impact / Customer	Crop yield simulations help to understand
	Satisfaction	the cumulative effects of water and nutrient

crop yield variability, and other field conditions over the growing season. Accurate yield predictions not only help farmers make informed economic and management decisions but also support famine prevention efforts. 5. Business Model (Revenue Model) Estimation of crop yield is created as a dashboard. This will be utilized by food production companies and beverages. By this way, the product will fetch more revenue to the organisation. 6. Scalability of the Solution A dashboard is created. And this will be useful not only for farmers to increase or production, but also for Department of Agriculture and Farmers Welfare to make better decisions and also for agricultural students to understand better about	r		
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