

Project Design Phase-I
Proposed Solution

Date	27 September 2022
Team ID	PNT2022TMID28033
Project Name	Exploratory analysis of rainfall data in India for agriculture
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)	<ul style="list-style-type: none">• Unexpected excessive rainfall causes floods and destroys the crops.• Lack of rainfall prediction causes low yield of crops and crop destruction.
2.	Idea / Solution description	<ul style="list-style-type: none">• By analyzing the past decade rainfall data using various AI algorithms we can obtain several outputs.• Comparing the outputs, we can predict the rainfall from the most promising algorithm's output.
3.	Novelty / Uniqueness	<ul style="list-style-type: none">• Without using any IOT devices such as sensors, we can predict the rainfall by analyzing the past decade rainfall data.• This reduces the cost of IOT devices and increases the predictability rate.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none">• By predicting the rainfall, farmers can plant the crops suitable to grow in that weather condition and prevent destruction.• As the destruction of crops is controlled, farmers will be profitable with their yield.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none">• By predicting the rainfall, a business can sell the information to news channel which reaches people.• Seeds for plants suitable for growth in predicted weather condition can be sold at a good cost to gain profit.
6.	Scalability of the Solution	<ul style="list-style-type: none">• Summer heat can also be predicted and it can be utilized.• Summer prediction can be used to conserve water during the rainy season for future use.