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)	• 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	• 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	• 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	• 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, farmer's will be profitable with their yield.
5.	Business Model (Revenue Model)	• 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	• 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.