Project Design Phase-I
Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID21508
Project Name	Exploratory Analysis of Rainfall data in India for Agriculture
Maximum Marks	2 Marks

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement	To analyse the rainfall data in India in order to help the growth of agriculture by predicting the heavy rainfall to prevent flooding and damage in crops.
2.	Idea / Solution description	In our analysis we are trying to understand the behaviour of rainfall in India over the years, by months and different subdivisions. The trend analysis of Annual rainfall considering India as whole, show that it is important to study subdivision for better forecasting.
3.	Novelty / Uniqueness	Rainfall prediction is important as heavy rainfall can lead to many disasters. The prediction helps people to take preventive measures and moreover the prediction should be accurate. So, it is important to analyse rainfall in order to prevent damage in crops.
4.	Social Impact / Customer Satisfaction	India is an agricultural country and secondary agro based market will be steady with a good monsoon. Thus, the prediction of amount of rainfall can play a major role in agricultural field.
5.	Business Model (Revenue Model)	● To create customer value by satisfying needs of a farmer (i.e.) predicting when the rainfall is high and providing early warning. ● Marketing the product among farmers and farmers associations.
6.	Scalability of the Solution	The Scalability of the project is ensuring that model's high-performance computing can support agriculture by delivering more accurate predictions, using higher resolution and more complex modelling, greater use of ensembles and vastly increased volumes of data of all forms.