

Project Design Phase-I
Proposed Solution

Date	28 September 2022
Team ID	PNT2022TMID09651
Project Name	Project – Exploratory Analysis of Rain Fall Data in India for Agriculture

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Rainfall is a major determining factor with regards to agriculture. Irregular heavy rainfall is a major reason for poor crop yield. It also results in stagnant water bodies, which in turn contributes to destruction of crops and other socioeconomic hazards. As a result it is crucial to accurately determine rainfall for effective use of water resources in order to increase the crop productivity.
2.	Idea / Solution description	Using Exploratory analysis on rain fall data we can effectively predict the occurrence of rainfall to manage, maintain and allocate water resources for agricultural purposes.
3.	Novelty / Uniqueness	The solution is reliant on the rainfall data. The solution is powered by data analytics and data visualisation tools. In addition, an Interactive UI is at place to enrich user experience.
4.	Social Impact / Customer Satisfaction	Operational cost minimized due to effective management of water resources. Agriculturist enrich increased yield and revenue. As a result, it enables them to settle credits and improve quality of life.
5.	Business Model (Revenue Model)	Improved yield, efficient management leads to Increased revenue
6.	Scalability of the Solution	Highly Scalable. Improves workflow, mainly resulting in efficient planning.