

Date	4 November 2022
Team ID	PNT2022TMID34062
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)	This study has been undertaken to examine the occurrence of climate change in Tamil Nadu, the southernmost state of India and its impact on rainfall pattern which is a primary constraint for agricultural production. Consequently the season window for south-west monsoon crops has shortened while the north-east monsoon crops are left to fend against flood risk during their initial stages. Further the incoherence in warming, climate change and rainfall impact seen across the state necessitates devising different indigenous and institutional adaptation strategies for different regions to overcome the advance impact of climate change on agriculture.
2.	Idea / Solution description	Each year depends on amount of during of monsoon rain, bad monsoon can lead to destruction of some crops, which may result in scarcity of some agricultural products which in turn can cause food inflation, insecurity and public unrest. In our analysis we are trying to understand the behavior of rainfall in India over the years, by months and different subdivisions.
3.	Novelty / Uniqueness	Advancing monsoon contributes almost 80% of the rainfall. Southwest and Northeast part of India receives most of the rainfall during the advancing monsoon.
4.	Social Impact / Customer Satisfaction	The amount of rainfall during the current monsoon season could sway economic activity in the agriculture sector and industries linked to it.
5.	Business Model (Revenue Model)	Field of agriculture dependence on monsoon continues. Over the long run, agricultural production is influenced by variety factors

		include technological changes,extension irrigation,availability of credit and land reforms.
6.	Scalability of the Solution	Agriculture plays an important role in developing economies thrust to reach high income status.Sector has been facing supply demand constraints mainly due to an increase in population,economic expansion and reducing in crop yield due to climate change.