

Project Design Phase-I
Proposed Solution Template

Date	04 October 2022
Team ID	PNT2022TMIDxxxxxx
Project Name	Applied Data Science – Exploratory analysis of rainfall data in India for agriculture
Maximum Marks	2 Marks

Proposed Solution:

S No.	Parameter	Description
1	Problem Statement (Problem to be solved)	Rainfall is the most important aspect of agriculture. Predicting rainfall accurately would benefit the farmers to maximise the yield and increase profits. Lack of rainfall or excessive rainfall could prove to be disastrous. Providing forecast would be beneficial.
2	Idea/Solution description	Using historical rainfall data to study and predict future trends in order to predict rainfall with a good accuracy.
3	Novelty/Uniqueness	Studying the severity of previous seasons and geographical attributes that may contribute to rainfall.
4	Social Impact/ Customer Satisfaction	This would benefit the farmers the most and maximise the yield and thereby the profits.
5	Business model (Revenue model)	Knowing the rainfall forecast well in advance enables better crop cultivation planning to maximise profits. India is predominantly an agricultural culture, so increasing the overall yield would improve the overall economy.
6	Scalability of the solution	This application can be used across the country where sufficient historical data is available.