Project Design Phase-I
Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID36050
Project Name	Exploratory Analysis of Rainfall Data in India for Agriculture
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	- Heavy and irregular rainfall can have many impacts like destruction of crops and farming lands. - Limited Food Access - Unsustainable Agriculture Practices - Leading to poor growth and overall health of crop - This project aims to build a model that is able to predict the occurrence of rainfall.
2.	Idea / Solution description	We will be using machine learning classification algorithms. We will train and test the data with these algorithms. From this the best model is selected and saved in pkl format. Once the model is saved, we integrate it with the flask application and also deploy the model in IBM.
3.	Novelty / Uniqueness	Predict rainfall using data science, analyse the weather condition and ensure the safety of crops.
4.	Social Impact / Customer Satisfaction	It will help the farmers to take precautionary steps to minimize the losses and consider technological solutions to improve their production.
5.	Business Model (Revenue Model)	- Collaboration in agriculture-sector - Providing technological solution
6.	Scalability of the Solution	We can build various models using machine learning algorithms and compare them to find the best accurate model.