

Ideation Phase

Define the Problem Statements

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Team ID	PNT2022TMID05703
Project Name	Exploratory Analysis of RainFall Data in India for Agriculture

Abstract:

For agriculture, rain is very important. For India's economy to grow, agriculture is essential. Because of its ongoing applications in areas like disaster management, agriculture, and pollutant concentration levels, rainfall forecasting or prediction has gained research relevance.

However, due to the extreme variability in recent climatic changes, accurate rainfall prediction has become very difficult. Therefore, a better forecasting model based on classification models like SVM, XGBoost, KNN, and Decision Tree is required, along with one that is highly accurate.

Customer Problem Statement Template:

Farmers facing the daunting task of gathering their harvest and taking the produce market after excessive rainfall harmed the winter crops. Accurate and timely rainfall prediction is expected to inject a new intervention phase to the affected sectors accosted with the negative propensities of rainfall extremes. Heavy rainfall can have impacts like damage or destruction of crops so a tool is required which can predict the rainfall more accurately so that it helps farmers and also for utilizing the water resources efficiently.

