

PROJECT OBJECTIVES

DATE	17-11-2022
TEAM ID	PNT2022TMID30075
PROJECT NAME	Exploratory Analysis of Rainfall Data in India for Agriculture

The rainfall Prediction Model has the main objective in the prediction of the amount of rain in a specific well or division in advance by using various regression techniques and finding out which one is best for rainfall prediction. This model also helps the farmer for agriculture to decide on the crop, helping the watershed department with water storage.

India is an agricultural country and the secondary agro-based market will be steady with a good monsoon. The economic growth of each year depends on the amount of duration of monsoon rain, bad monsoon can lead to the 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 by different subdivisions.

The main aim of the objective is to find the:

- **India has two main rainfall season: one is southwest monsoon(advancing monsoon) and other is Northeast monsoon(retreating monsoon).**
- Advancing monsoon contributes almost 80% of the rainfall. Southwest and Northeast part of India receives most of the rainfall during the advancing monsoon.