

## **TITLE : Exploratory Analysis Of RainFall Data In India For Agriculture**

Team members: S.L. Deepthi  
K. JhansiRani  
S. Chitra  
P. Jansi

### **PROBLEM STATEMENT:**

1. Human life depends heavily on the climate. accordingly, the prediction ought to be as accurate as feasible. In this essay, we attempt to discuss rainfall forecasting, which is a important part of human existence and a key source of fresh water, a crucial resource for human life. Not only is fresh water essential for drinking, but it is also essential for farming, industry, and other human needs.
2. Because of climate change, making accurate climate predictions is more frequently difficult.
3. A poor rainfall forecast can impact farming, specially for farmers whose entire harvest depends on the weather. farming is always vital to every thriftiness. accordingly, it is partly successful in idea the rainfall accurately.

### **OBJECTIVIE:**

This study look into the impact of those changes on rainfall patterns in Tamil Nadu, the most southern state of India, which has experienced a meaning drop in farming productivity as a result of climate change. The minimum temperature in Coimbatore has increased drastically since 1969, while the minimum and maximum temperatures in Madurai have both soaring. At the five sample stations studied across the state, climate change occurred between the late 1980s and early 1990s. Due to this disruption of the south-west monsoon, September's rainfall decreased with less dispersion, whereas August's rainfall increased with higher dispersion. As a result, the south-west monsoon crop season window has decreased, leaving the north-east monsoon crop to defend itself against flood risk during its early stages. in addition, due to the state's varying warming, climate change, and rainfall impacts, separate endemic and institutional version approaches for different regions must be created to resist the damaging effects of climate change on husbandry.

These days, rain has become a serious worry. For the moment, the weather is fluctuating. Forecasting rain is crucial because without it, many tragedies could occur. Regularly, severe rain can destroy crops and trigger deadly floods that can endanger human life. For efficient use of water resources, crop productivity, and advanced design of water structures, it is crucial to calculate the rainfall precisely.

## **LITERATURE SURVEY:**

- I      Title      - Agriculture India farm department and farming tips .(2008)  
Author   - Dr. P. Chandra Shekara  
Outcome -  
            To enhance knowings about source of extension, entropy and services among farmers.  
            To encourage farmers to avail extension services through ICT means.  
            To enhance farmers knowledge on farming credit, insurance and legal aspects.
- II      Title      - Spatial analysis of Indian Summer monsoon Rainfall(Mar 26,2014)  
Author   - Mark and Ora C.M.Kishtawal  
Outcome -  
            realize the variance in rainfall, analysis of Indian Summer monsoon rainfall using Spatial  
            resolve
- III     Title      - Regional Rainfall prediction using support vector machine assortment of Large-  
                    scale Precipitation(2020)  
Author   - Islam A.Hussein, Mehrdad Ghaziasgar, Christopher Thron  
Outcome -  
            Large-scale downfall maps can under some conditions give useful information for  
            predicting regional rainfall.