

Exploratory Analysis of Rainfall Data in India for Agriculture

Team ID

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Problem Statement

Nowadays the population of our country is growing continuously. So, the need for the food is increasing, so production of the crops is increasing daily. Agriculture plays major role in India, it almost 18% of total GDP of India. On the other hand, the productivity of crops is affected by various factors like climates change (like heavy rainfall, sunny), low fertility soil, etc. Rainfall has become a major issue in recent years. Rainfall forecasting is important otherwise, it may lead to many disasters. Irregular heavy rainfall may lead to the destruction of crops, heavy floods that can cause harm to human life. It is important to exactly determine the rainfall for effective use of water resources, crop productivity, and pre-planning of water structures. Where heavy rainfall can decrease crop yield more in cooler areas and the effect is exacerbated even further in areas that have poor drainage, Excessive rainfall can affect crop productivity in various ways, including, production factors affecting yields. Most of the crops are solely dependent upon weather conditions.