

# PROBLEM STATEMENT

## EXPLORATORY ANALYSIS OF RAINFALL DATA IN INDIA FOR AGRICULTURE

Mentor: Mrs. S. Eliza Femi Sherley

Evaluator: Dr. Kola Sujatha .P

### Team:

1. Vihitha Kota -2019506112
2. Astha Shrivastava -2019506016
3. Nethra Janardhanan -2019506057
4. Aruna P -2019506014
5. Anurag Manoj Bagde -2019506120

---

**This project aims to build a model that is able to predict the occurrence of rainfall.**

India being a predominantly agriculture based country. Main achievement of the agriculture is dependent on rainfall. Due to global warming and many other climate issues the weather conditions are changing for time being. Irregular heavy rains not only cause crop damage but may result in disasters.

Exploratory analysis will concentrate in the following aspects: model inputs, data visualization, model parameters and the pre-processing techniques. Methods will be compared on various evaluation metrics and the dependability to predict the rainfall by analysing the data. Different types of parameters will be utilized to improve the performance of the model. The goal is to obtain high accuracy in forecasting the rainfall.

