

## RAINFALL PREDICTION MODEL

Rainfall prediction is the process of estimating the amount and distribution of rainfall over a specific area and time period. This is an important task in many fields, such as agriculture, water resource management, and disaster response.

Here's how to implement a rainfall prediction system:

**Data collection:** The first step in implementing a rainfall prediction system is to gather data on historical rainfall patterns. This data can come from various sources, including weather stations, satellites, and radar systems. It is important to have a large dataset to ensure accurate predictions.

**Data processing:** Next, the data must be processed to extract meaningful information and prepare it for use in the prediction model. This may involve cleaning the data, removing outliers, and transforming the data into a suitable format.

**Model selection:** There are several different types of models that can be used for rainfall prediction, including statistical models, machine learning models, and physical models. The choice of model will depend on the specific requirements of the prediction system, such as the desired level of accuracy and the availability of data.

**Model training:** Once a model has been selected, it must be trained using the processed data. This involves using the data to create a mathematical representation of the relationship between various meteorological variables and rainfall.

**Model validation:** The accuracy of the prediction model should be validated by comparing its predictions to actual rainfall data. This will help to identify any issues with the model and to refine it, if necessary.

**Deployment:** The final step is to deploy the rainfall prediction system, making it available for use by stakeholders. This may involve integrating the model into a web-based platform, a mobile app, or a desktop application.

These are the general steps for implementing a rainfall prediction system. The specific implementation details will depend on the chosen model and the data available for training the model.

## SCREENSHOTS

**Rainfall Prediction**

Please enter the following details

Location: Albany MaxTemp: MinTemp: Rainfall: WindGustSpeed:

WindSpeedMin: WindSpeedMax: HumidityMin: HumidityMax: PressureMin:

PressureMax: TempMin: TempMax: year:

month: day:

RainToday: No WindGustDir: W WindDirMin: W WindDirMax: W

Predict

