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Problem Statement

To develop and implement rainfall prediction system. To obtain predictions for an arbitrary day with input parameters.

Objectives

* To protect life and property
* Used by utility companies to estimate demand over coming days
* To agriculture, and therefore to traders within

commodity markets

* To narrow the error and pick the most likely outcome

Outcomes

* Finding and analyzing hidden patterns among the noise
* The graph we obtain after classifying express various trends which tie rainfall and humidity, visibility and temperature together.

Software Required

* Windows 7 and above
* Python 2.7 and above

Libraries : numpy, pandas, sklearn, matplotlib, pyplot, LinearRegression, LogisticRegression.

Block Diagram

Dataset

Conclusion

The system is proposed for predicting rainfall on arbitrary day and showing the graphical representation of the same. The system is justiﬁed by the dataset and the regression techniques.

Precipitation is tracked across multiple parameters

successfully.

Future Scope

* The System can be extended to study the seasonal variations of rainfall
* The System can be extended to analyze various atmospheric conditions such as wind velocity, surface pressure, etc. using other ML techniques to predict rainfall more accurately

Thank you!!