

RAINFALL PREDICTION USING COMBINATION OF MACHINE LEARNING ALGORITHMS

Priyanka R, Karthikeyan P,
School of Information Technology and Engineering,
Vellore Institute of Technology, Vellore, Tamil Nadu, India

The temporary prediction of precipitation is a major scientific problem in monsoon meteorology. The statistics and mathematics group has increased the prediction accuracy of ISMR up to a certain degree. Nevertheless, since ISMR's non-linear nature is still below the satisfactory level of its predictive accuracy. Rainfall Prediction is extremely important in countless respects and scopes. Mathematical and statistical models require complex computing power. Active safety measures may be useful to reduce the effects of sudden and serious rainfalls in advance. Due to climate change and an accurate forecast of rainfall is one of the most complex and difficult tasks in the contemporary world. Statistical models have been projected in the past two decades for the literature monsoon rainfall. Although numerous researchers present different mathematical models, it is still a difficult task to understand the time variations of ISMR. Early warning against heavy rainfall will minimize natural disaster damage. And it can help farmers in their farming practices, which pave the way for our country's better economic growth. Potential weather conditions based on different environmental parameters are calculated by climate prediction. Via Machine Learning Techniques, several investigators have taken care to apply ANN in ISMR forecasting and can predict the precipitation by extracting cached trends from previous data's weather attributes. A clear literature review is introduced here to gain insight into the variables that affect the precipitation. And this review will also provide a prediction report on the rainfall for the next several years using machine learning techniques.