Abstract

India is basically an agricultural country and the success or failure of the harvest and water scarcity in any year is always considered with the greatest concern. The average annual or seasonal rainfall at a place does not give sufficient information regarding its capacity to support crop production. Rainfall distribution pattern is the most important. The rainfall forecasting is scientifically and technologically challenging problem around the world in the last century. In this paper Neural Network model was developed for the rainfall forecast performance and the results were compared with Seasonal Auto regressive integrated moving average (SARIMA) model. The performance by (ANN) model and statistical time series model for prediction were examined using visualization technique and statistical test.

References


**Index Terms**

Computer Science  
Artificial Intelligence

**Keywords**

Data mining, Neural networks, Time Series, SARIMA, BIC and RMSE.