

# PREDICTION OF RAINFALL FOR CROP PRODUCTION

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## ABSTRACT

Agricultural sector in India is facing rigorous problem to maximize the crop productivity. More than 60 percent of the crop still depends on monsoon rainfall. Recent developments in Information Technology for agriculture field has become an interesting research area to predict the crop yield. The problem of yield prediction is a major problem that remains to be solved based on available data. Data Mining techniques are the better choices for this purpose. Different Data Mining techniques are used and evaluated in agriculture for estimating the future year's crop production. This project presents a brief analysis of crop yield prediction using Multiple Linear Regression (MLR) technique, Random Forest Regression (RFR), Support Vector Regression (SVR) and Artificial Neural Network(ANN)based technique for the selected region. i.e., Madurai district of Tamil Nadu in India.

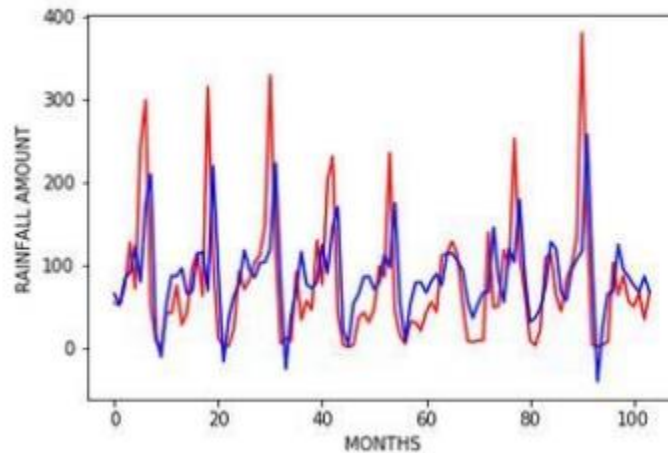


Fig 1.1 Prediction of rainfall using Recurrent Neural Network