

ABSTRACT

This project, which is a rainfall predictor model is a predictive model that uses artificial neural networks to forecast the amount of rainfall given the recent rainfall amount. It is based on recurrent neural network.

This project is based on the need to improve efficiency in farming as rainfall is the main influencer in farming. If farmers know the amount of rainfall to expect then they will get the best variety of crop to farm on the season improving their harvest.

This project is inspired by how farmers forecast rainfall wrong and end up getting huge losses. This has led to loss of money and time wastage. Large and small scale farmers need this software to correctly forecast rainfall.

The software is written in python due to its vast and many libraries. The algorithm applied is RNN as is the best in time series forecasting.

The data was recorded in Narok weather station. It was noted during research that farmers needed a new way of doing things. They needed an efficient, accurate and fast way of planning for their farms. They were needed to use traditional and heuristic methods of forecasting rainfall which always proved to be hard but with this they only need to key in the time they want to forecast the rainfall