

Abstract

Dengue virus is the most common disease from Anthropod Borne Virus globally. Kabupaten Bandung which located in tropical climate that support the dengue fever because dengue fever spread by female mosquito of Aedes Aegypti and Ae. Albopictus that infected by dengue virus

Autoregressive integrated Moving Average (ARIMA) is a general method that use to predict, especially time series data. Another common method for predicting time series data is Recurrent Neural Networks (RNN). Long-Short Term Memory (LSTM) is a unit in RNN constructed to eliminate Long term dependencies.

The result of hybrid ARIMA – LSTM model shown significant increased value compared to only ARIMA model. The best of ARIMA model value have RMSE of 1.542773, while the hybrid model have RMSE of 0.099640. the result proved that hybrid model have better performance in predicting