

ABSTRACT

Airline service is one of the services that is always widely used as a medium of transportation, both inter-city or inter-country transportation. However, do not rule out the possibility of delays in airline services, an unpleasant experience for passengers who experience it. This research was conducted to be able to predict the delay because of the many passengers who suffered losses due to flight delay (departure).

The Long Short Term Memory (LSTM) is one of methods that can predict time series data which is a derivative of the Recurrent Neural Network (RNN). In this study there are two scenarios that have different ways of preprocessing. Both of these scenarios produce predictions with error values calculated using Root Mean Squared Error (RMSE), respectively from the first to the second scenario namely: 41, 21. Between the two, the second scenario is better than the first scenario due to extreme data deletion (anomaly) in the second scenario.

Keywords: flight, departure delay, model, long short term memory.