

Abstract

If data can be influenced by previous data, then the data can be said to have sequential properties. Unlike the data that is not sequential, the randomization of sequential data sequences can change the data. A Common Neural network model generally cannot distinguish a sequential data or not sequential. Thus the recurrent model is made specifically for managing data that has sequential properties by studying the relationship between one data with the previous data. There are many things that must be considered to create a recurrent model. One of them is the architecture of the model itself. In this paper, a whale optimization algorithm (WOA) is used to optimize the LSTM architecture by determined it's hidden layer number of neuron and dropout. Experimental results show that it can produce an optimum LSTM with accuracy of 83.59%.

Kata kunci : long short term memory, whale optimization algorithm