

LSTM Results

Experiment Number	Parameters Chosen	Results
1	No. of input dimensions = 20 No. of output dimensions = 1 No. of hidden dimensions = 64 Learning rate = 0.01 No. of epochs = 100"	Train: MSE 0.008125382640510163 RMSE 0.09014090436927157 MAE 0.08609485491107159 Test: MSE 0.0013938243852435516 RMSE 0.037333957535246 MAE 0.030875477600774068
2	No. of input dimensions = 20 No. of output dimensions = 1 No. of hidden dimensions = 64 Learning rate = 0.1 No. of epochs = 80"	Train: MSE 0.05698616362375975 RMSE 0.23871774886622854 MAE 0.226765864199689 Test: MSE 0.0027925757756273677 RMSE 0.05284482733085016 MAE 0.04666951727730321
3	No. of input dimensions = 20 No. of output dimensions = 1 No. of hidden dimensions = 64 Learning rate = 0.01 No. of epochs = 80"	Train: MSE 0.01466674346734062 RMSE 0.12110633124383142 MAE 0.11615874651021708 Test: MSE 0.0028325365675870213 RMSE 0.053221579905025566 MAE 0.04435128327617841
4	No. of input dimensions = 20 No. of output dimensions = 1 No. of hidden dimensions = 64 Learning rate = 0.001 No. of epochs = 80"	Train: MSE 0.0006884559781533425 RMSE 0.026238444659570478 MAE 0.024032989886571886 Test: MSE 0.0005218809867693063 RMSE 0.022844714635322245 MAE 0.017329087465076904
5	No. of input dimensions = 20 No. of output dimensions = 1 No. of hidden dimensions = 64 Learning rate = 0.1 No. of epochs = 150	Train: MSE 0.0542727364346808 RMSE 0.23296509703103768 MAE 0.2202077677349839 Test: MSE 0.0011729750063961958 RMSE 0.034248722697294794 MAE 0.030135234110829735
6	No. of input dimensions = 20 No. of output dimensions = 1 No. of hidden dimensions = 64 Learning rate = 0.01 No. of epochs = 150"	Train: MSE 0.0035095169490370814 RMSE 0.059241176128070595 MAE 0.056160235092708705 Test: MSE 0.0006267561962605872 RMSE 0.02503509928601417 MAE 0.020149549322126547

7	No. of input dimensions = 20 No. of output dimensions = 1 No. of hidden dimensions = 64 Learning rate = 0.001 No. of epochs = 150	Train: MSE 0.0006523068623774183 RMSE 0.02554029879185869 MAE 0.023426414084245353 Test: MSE 0.0005584907082681734 RMSE 0.02363240800824523 MAE 0.018060403221078877
8	No. of input dimensions = 20 No. of output dimensions = 1 No. of hidden dimensions = 64 Learning rate = 0.1 No. of epochs = 200	Train: MSE 0.04633156219704561 RMSE 0.21524767640336007 MAE 0.2013150781857861 Test: MSE 0.00026920638895063567 RMSE 0.01640751013867234 MAE 0.0105459108093658
9	No. of input dimensions = 20 No. of output dimensions = 1 No. of hidden dimensions = 64 Learning rate = 0.01 No. of epochs = 200	Train: MSE 0.005400338194092551 RMSE 0.07348699336680302 MAE 0.06937703454168292 Test: MSE 0.0004828286902877134 RMSE 0.02197336319928548 MAE 0.017654649198973298"
10	No. of input dimensions = 20 No. of output dimensions = 1 No. of hidden dimensions = 64 Learning rate = 0.001 No. of epochs = 200	Train: MSE 0.0008545187646450972 RMSE 0.029232152925248205 MAE 0.026613043633754607 Test: MSE 0.00042627605327730744 RMSE 0.020646453770013565 MAE 0.015164962658315953"

RandomForest Results

Experiment Number	Parameters Chosen	Results
1	No. of estimators = 100 Random state = 0	Train: RMSE: 0.0030980975122947493 MSE: 9.598208195686916e-06 MAE: 0.0020502608393703275 Test: RMSE: 0.16722532931573897 MSE: 0.027964310764757343 MAE: 0.13658324578165204"