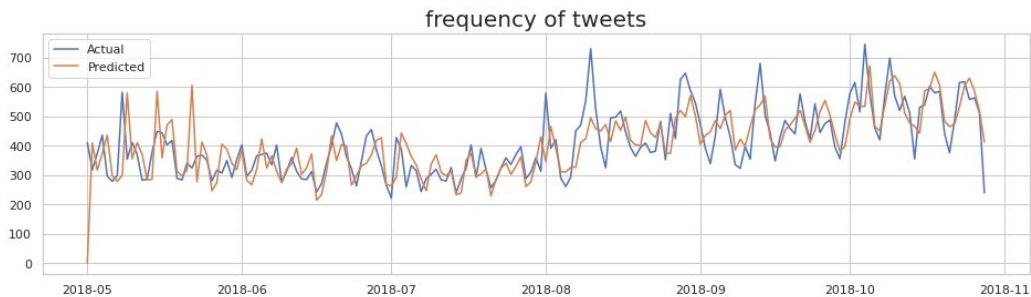


### RMSE'S FOR posts\_with\_new\_URLS.JSON (4.5 gb)

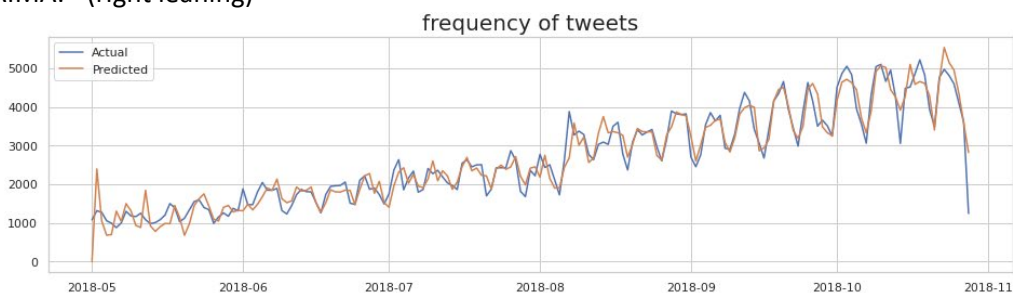
MODEL	LEFT LEANING DATA	CENTRE LEANING DATA	RIGHT LEANING DATA	
<b>SARIMA</b> (0 lookback and predicting one day)	83.2411	78.2622	335.0768	
<b>LSTM</b> (1 lookback and predicting one day)	Train: - 77.34 Test: - 104.34	Train: - 74.06 Test: - 168.25	Train: - 377.23 Test: - 644.70	
<b>LSTM</b> (3 lookbacks and predicting next day)	Train: - 76.62 Test: - 106.83	Train: - 73.93 Test: - 158.83	Train: - 360.97 Test: - 620.88	
<b>MULTI STEP TIME SERIES FORECASTING</b> (3 lookbacks and predicting next 6 days)	t+1: - 95.758846 t+2: - 117.86330 t+3: - 109.365214 t+4: - 107.442718 t+5: - 120.931433 t+6: - 122.825159	t+1: - 156.951306 t+2: - 207.070738 t+3: - 223.788676 t+4: - 224.029560 t+5: - 210.212842 t+6: - 202.395888	t+1: - 674.223370 t+2: - 988.059908 t+3: - 1078.879133 t+4: - 1039.470394 t+5: - 857.088682 t+6: - 890.079909	

### RMSE PLOTS: -

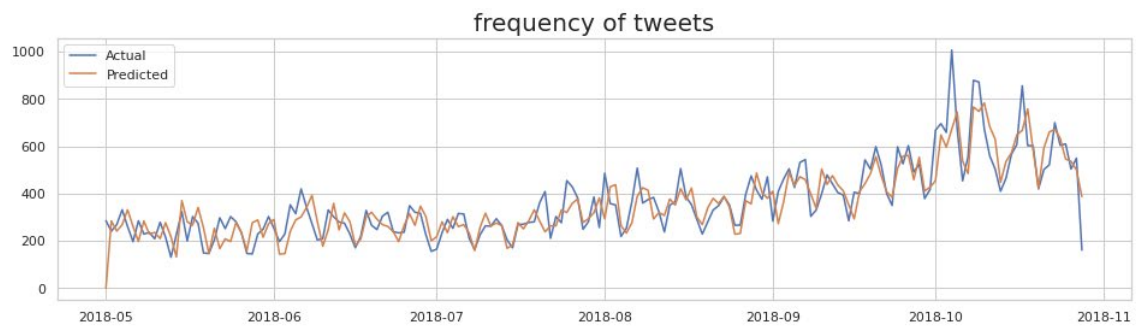
SARIMA: - (Left leaning)



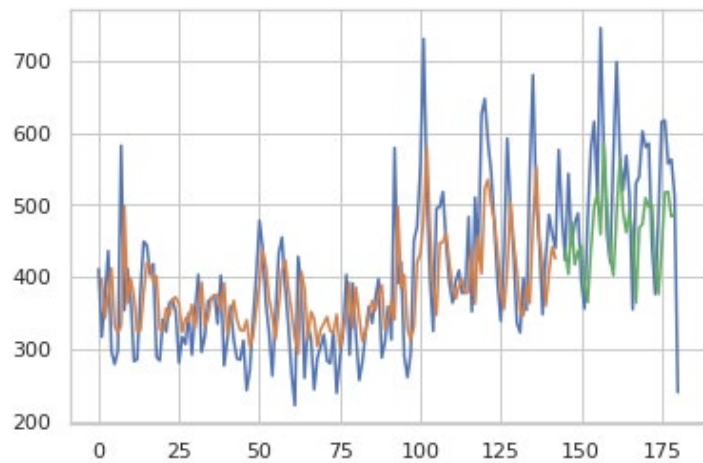
SARIMA: - (right leaning)



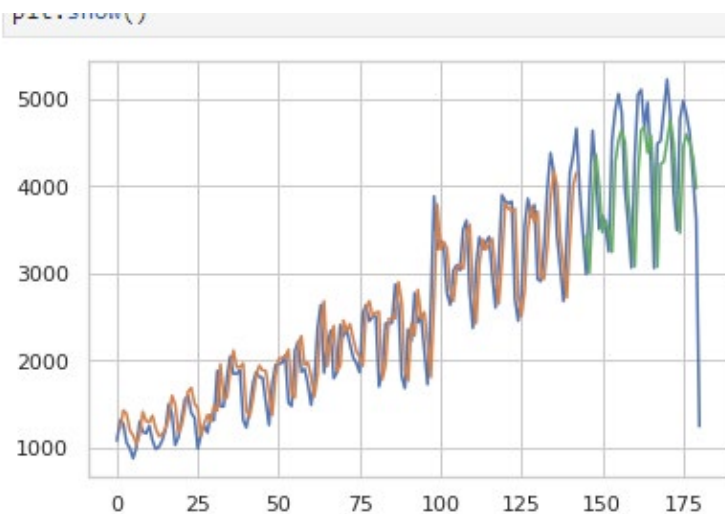
SARIMA: - ( center leaning)



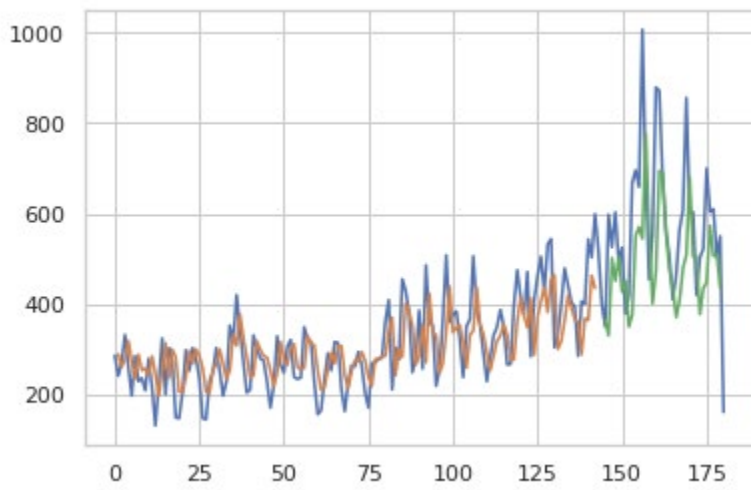
LSTM (1 lookback, left):-



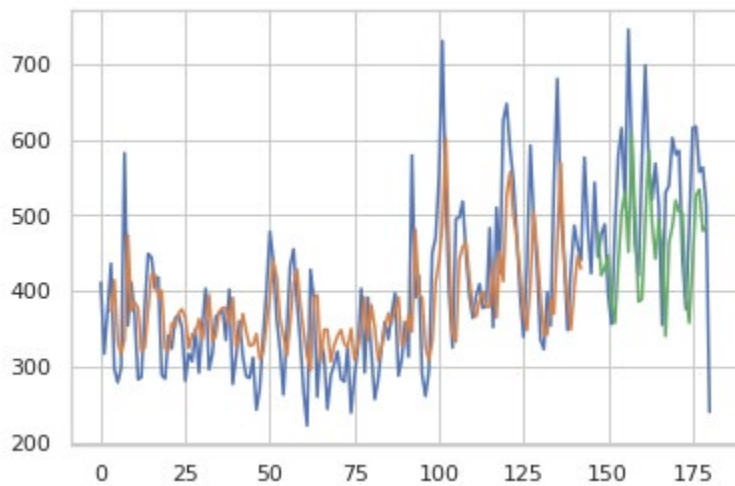
LSTM(1 lookback, right):-



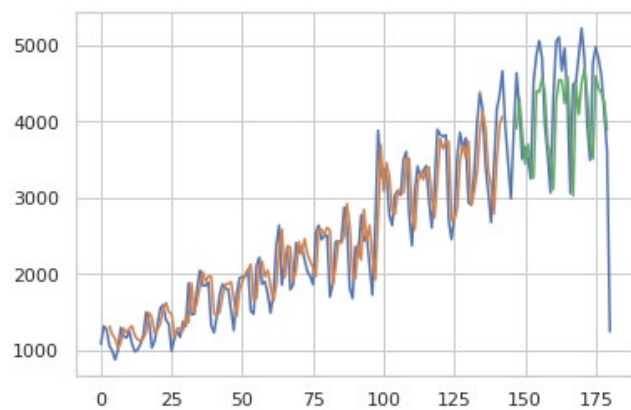
LSTM (1 lookback, center):-



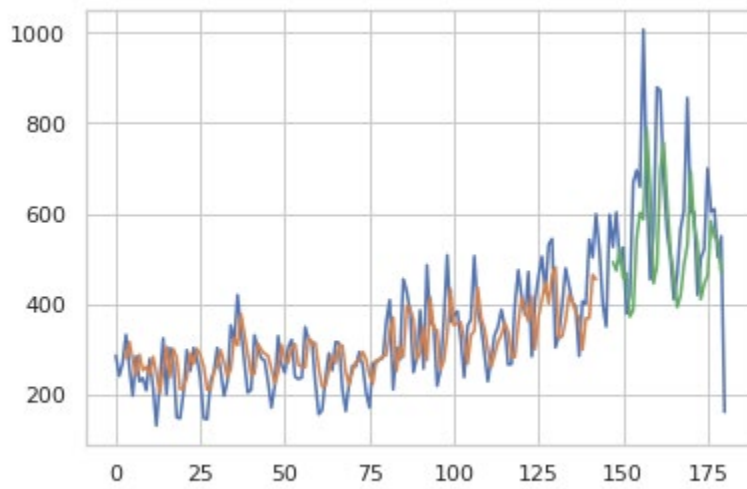
LSTM (3 lookbacks, left):-



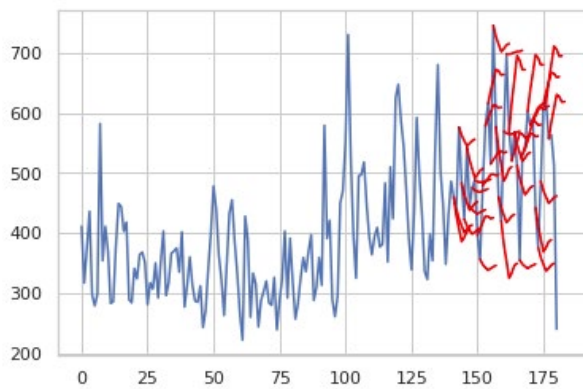
LSTM (3 lookbacks, right):



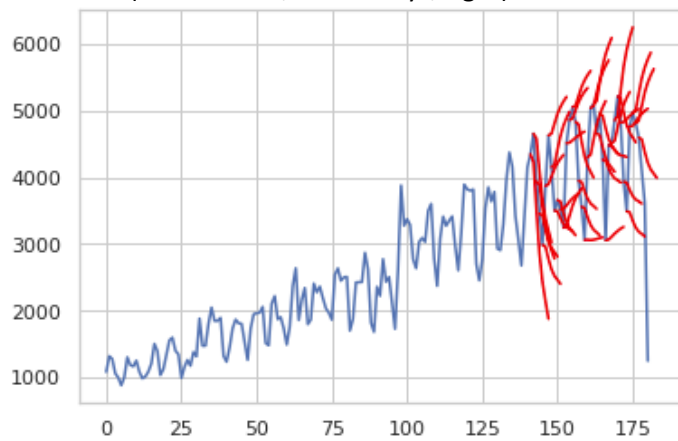
LSTM (3 lookbacks, center):



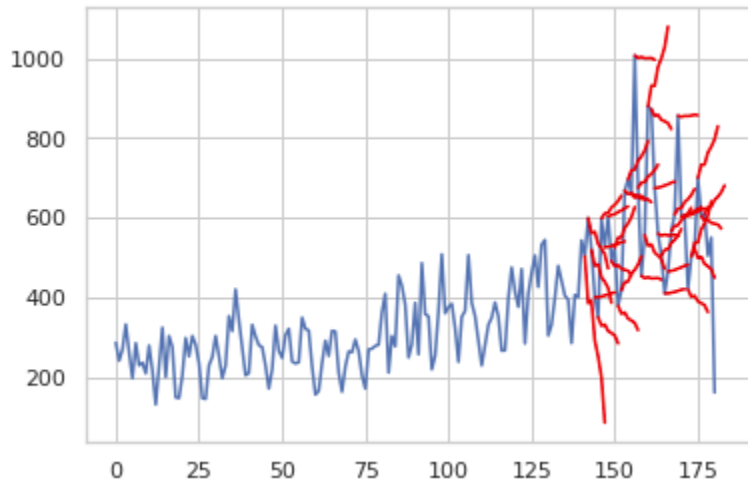
MULTISTEP (3 Lookbacks, 6 next days, left):



MULTISTEP (3 Lookbacks, 6 next days, right) :



MULTISTEP (3 Lookbacks, 6 next days, center):

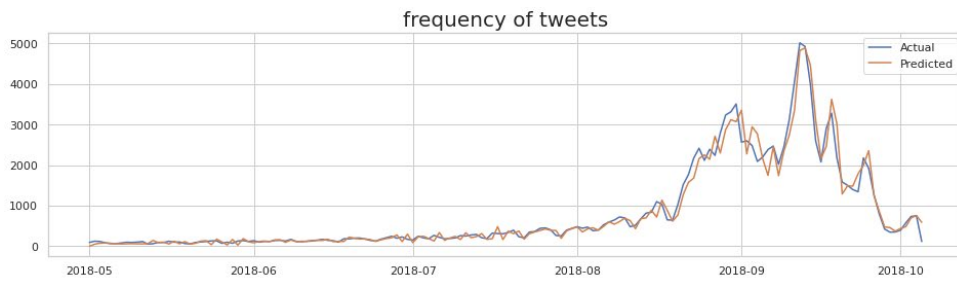


**RMSE'S FOR tweet ICWSM.json (2.6 gb)**

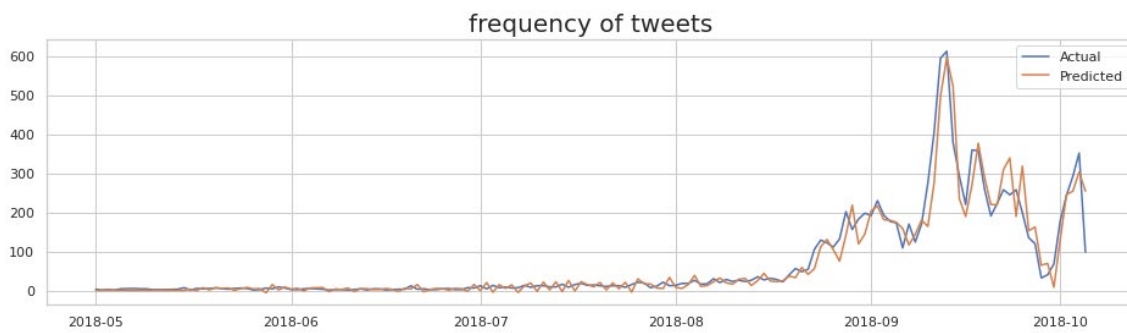
MODEL	LEFT LEARNING DATA	CENTRE LEARNING DATA	RIGHT LEARNING DATA	
<b>SARIMA</b> (0 lookback and predicting one day)	208.8828	70.1580	33.9905	
<b>LSTM</b> (1 lookback and predicting one day)	Train: - 54.88 Test: - 485.49	Train: - 29.59 Test: - 137.89	Train: - 4.69 Test: - 67.55	
<b>LSTM</b> (2 lookbacks and predicting next day)	Train: - 54.70 Test: - 520.44	Train: - 30.11 Test: - 159.40	Train: - 4.11 Test: - 89.06	
<b>MULTI STEP TIME SERIES FORECASTING</b> (2 lookbacks and predicting next 6 days)	t+1: - 485.399850 t+2: - 806.124650 t+3: - 997.218727 t+4: - 1097.790865 t+5: - 1143.815873 t+6: - 1184.441658	t+1: - 137.87547 t+2: - 200.955762 t+3: - 239.275986 t+4: - 268.94976 t+5: - 278.841 t+6: - 281.7471	t+1: -65.462751 t+2: - 106.679514 t+3: - 131.190941 t+4: - 142.944588 t+5: - 151.365205 t+6: - 156.762280	

## RMSE PLOTS:

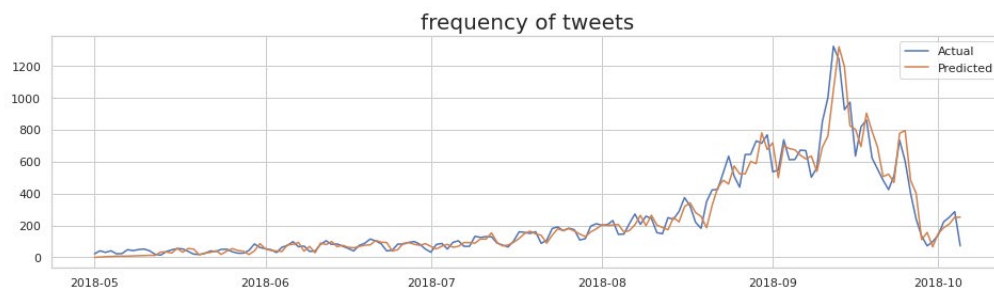
SARIMA (left) :



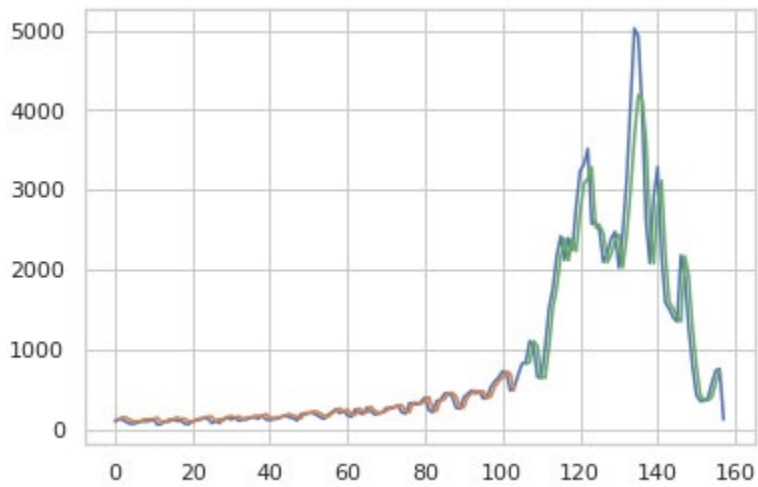
SARIMA (right):



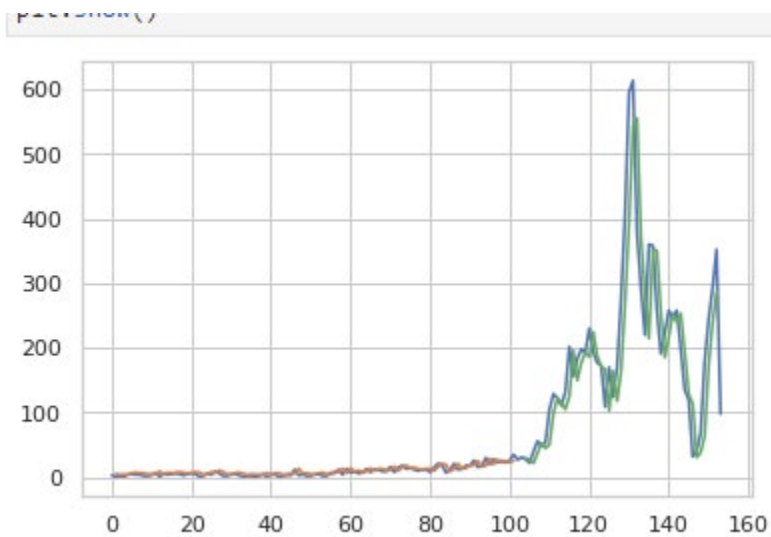
SARIMA( centre):



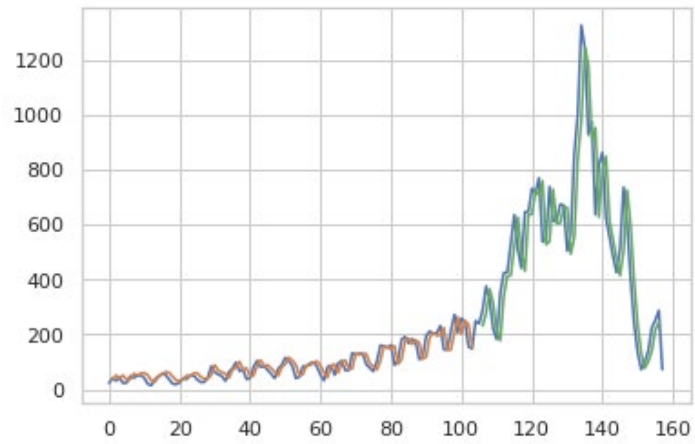
LSTM(1 lookback, left):



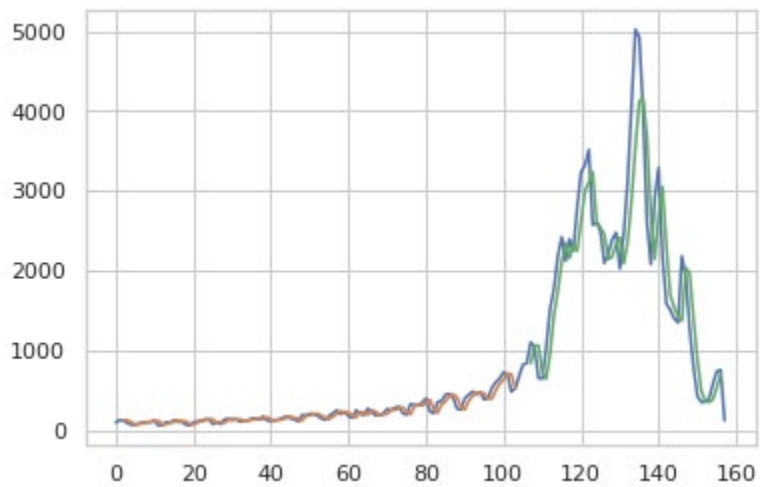
LSTM (1 lookback, right):



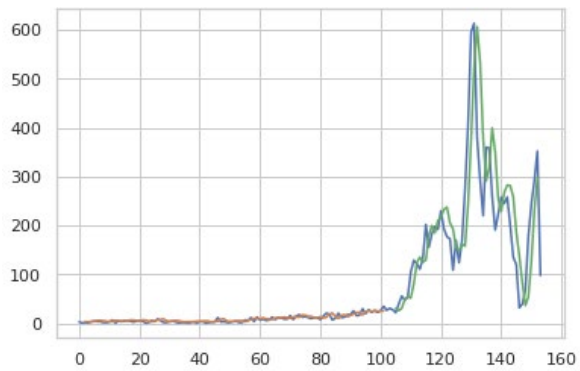
LSTM (1 lookback, center):



LSTM (2 lookbacks, left) :

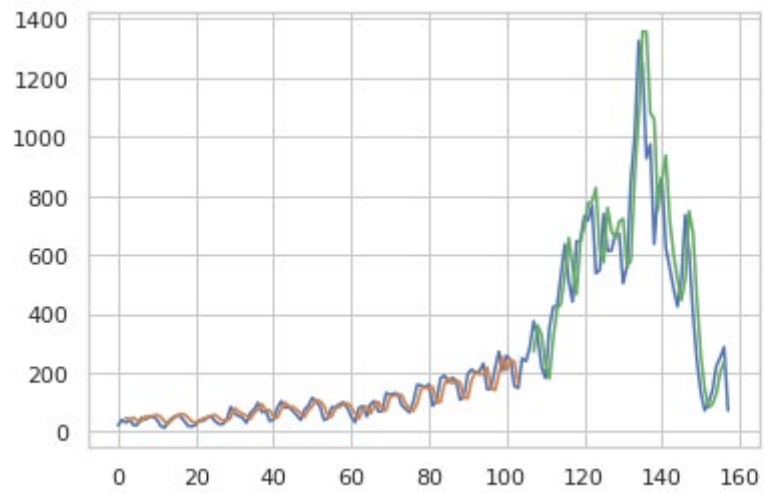


LSTM( 2 lookbacks, right) :

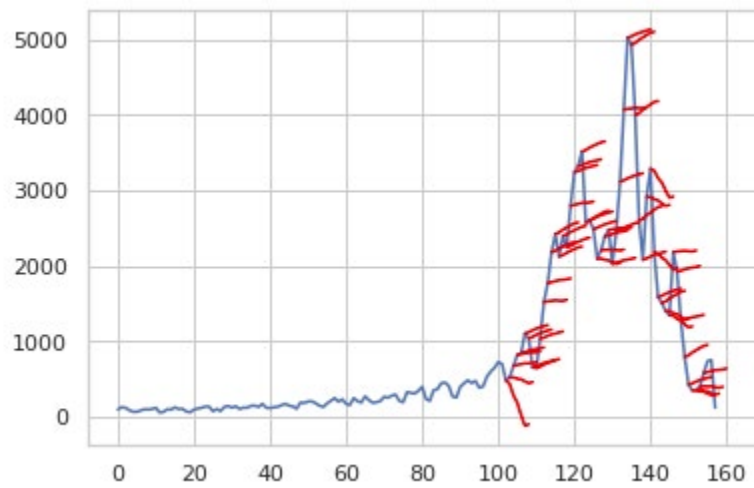




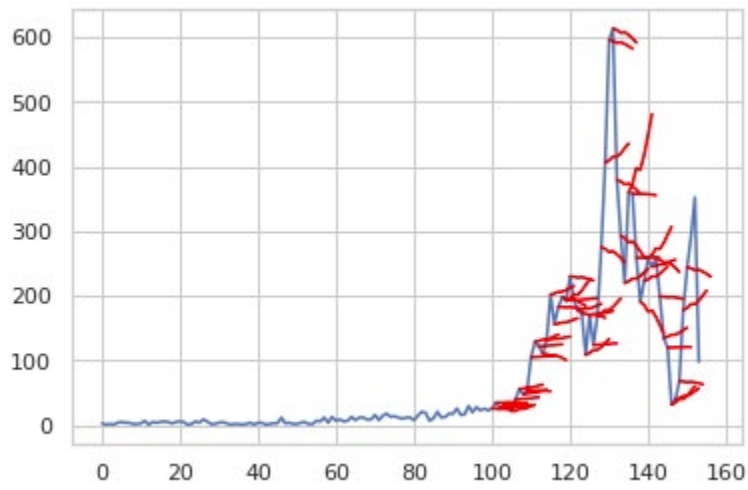
LSTM( 2 lookbacks, center):



MULTISTEP(2 lookbacks, 6 days, left):



MULTISTEP (2 lookbacks, 6days, right):



MULTISTEP(2 lookbacks, 6days, center):

