

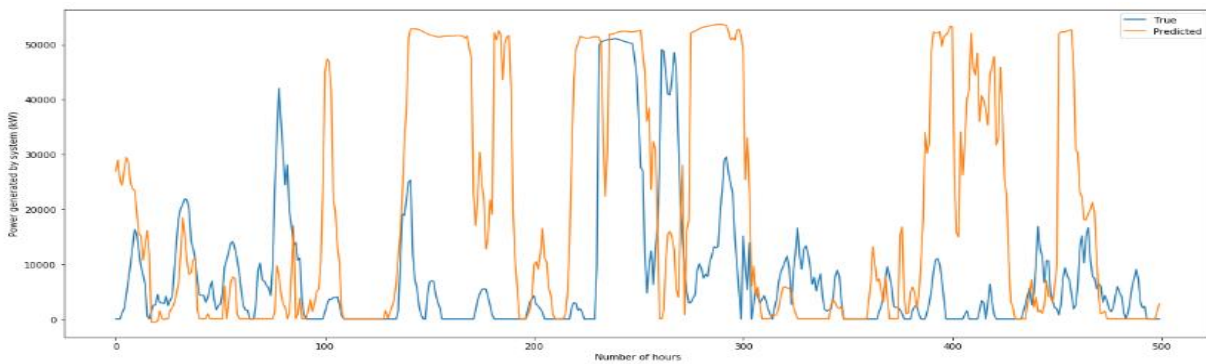
### Prediction:

For Predicting  $t^{\text{th}}$  hour value LSTM model is only using  $(t-k)$  predicted values not the expected ones where  $k$  is the lag size or number of look backs.

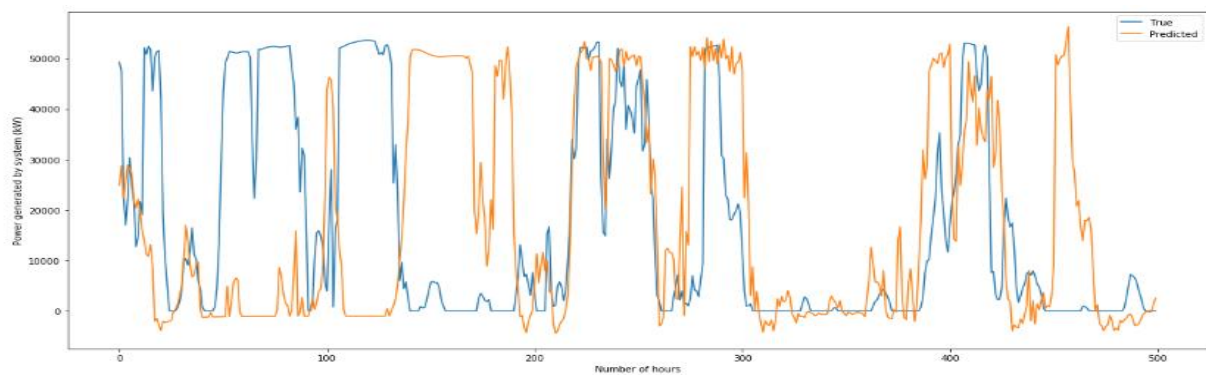
Results of Experiments for Washington(WA) as follows:

Experiment No.	Prediction duration	Result (Mean Absolute Percent Error)
2	24 hours	99.74
3	2 days	117.59
4	1 week	127.70
5	1 month	124.45

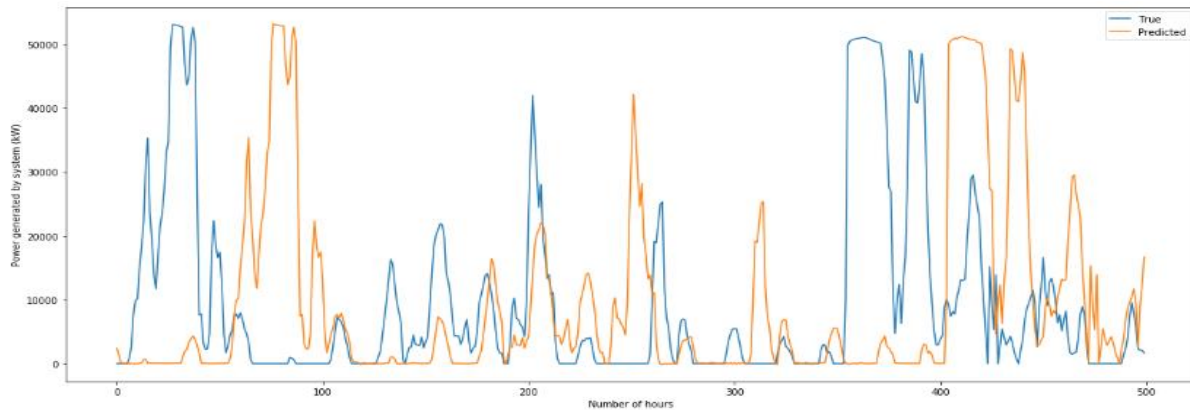
### Plots for Prediction:



1 Month ahead Prediction



1 Week ahead Prediction



2 days ahead Prediction

**Code Links:**

24 Hours: <https://github.com/ShashwatArghode/Wind-Energy-Prediction-using-LSTM/blob/master/Exp11-WA-Prediction%20Wind%20Approach%201%20Batch%201%2024%20hours%20ahead.ipynb>

48 Hours: <https://github.com/ShashwatArghode/Wind-Energy-Prediction-using-LSTM/blob/master/Exp12-WA-Prediction%20Wind%20Approach%201%20Batch%201%2048%20hours%20ahead.ipynb>

1 Week: <https://github.com/ShashwatArghode/Wind-Energy-Prediction-using-LSTM/blob/master/Exp13-WA-Prediction%20Wind%20Approach%201%20Batch%201%20week%20ahead.ipynb>

1 Month: <https://github.com/ShashwatArghode/Wind-Energy-Prediction-using-LSTM/blob/master/Exp14-WA-Prediction%20Wind%20Approach%201%20Batch%201%20month%20ahead.ipynb>