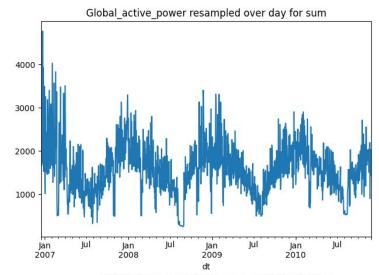
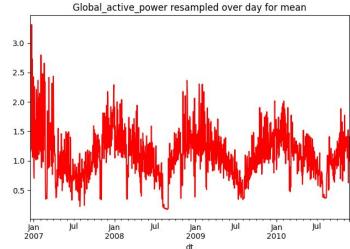
Household Power Consumption

A data science modeling study by Terry Thompson

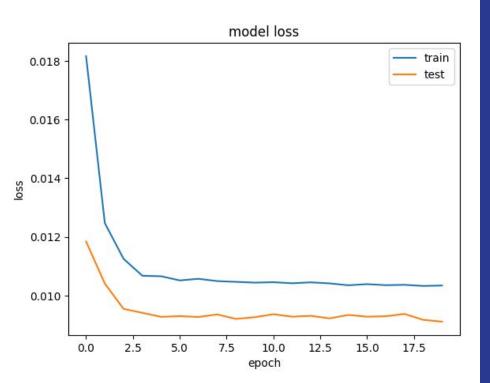
Active Power Usage

- Sampling of over 2 million households
- Trends are from 2006 2011





Modeling Loss

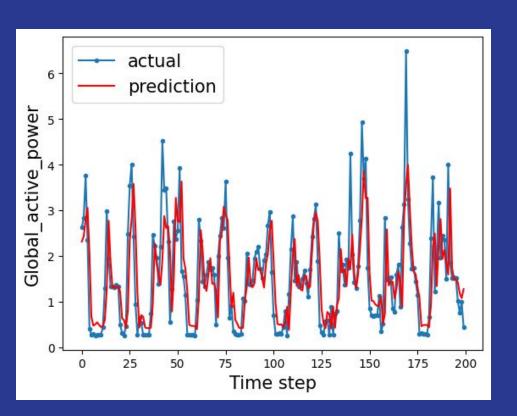


- LSTM Neural Network employed in predictions

 Network has 100 neuron layers

Testing shows .61 RMSE

Model Prediction



 Model works well for overall trend

Model could be used by utility companies

Conclusion

The model shows good overall trending

Further study could be done to:

- -calculate costs in the future
- -prepare utility companies for future usage

