

Team: Overfit but not over it

We plan to utilize gradient tree boosting to predict net load. While tree boosting is not commonly used in time series forecasting, the lack of historical data and the presence of deeply connected exogenous variables (e.g. temperature) are well-suited to nimble tree algorithms which are easy to prevent from overfitting.

To adapt to the need for probabilistic forecasts, we plan to start with simple fixed distribution parameters (e.g. a normal distribution fit to historical errors from the model) and to attempt to progress to increasingly more complex methods (e.g. using pinball loss to get quantiles out of the tree algorithm).