New York City Energy

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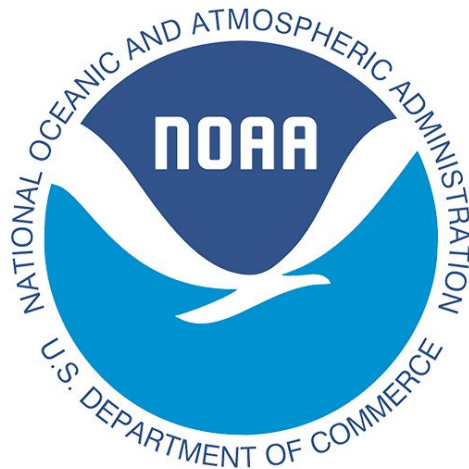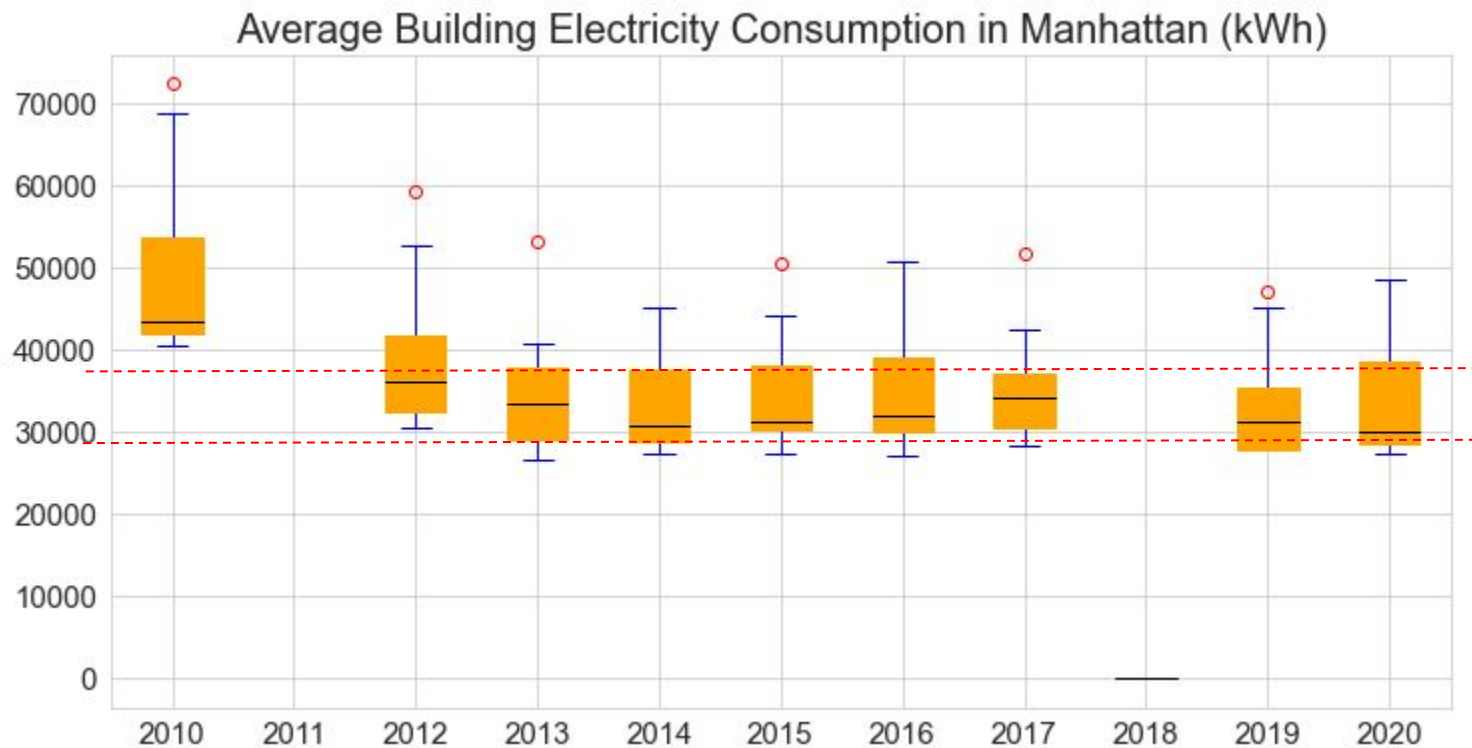
Business Problem

Analyze future electricity demand using weather data

Data

- 2010 Jan - 2021 Feb
- 362,630 records

Electricity Consumption

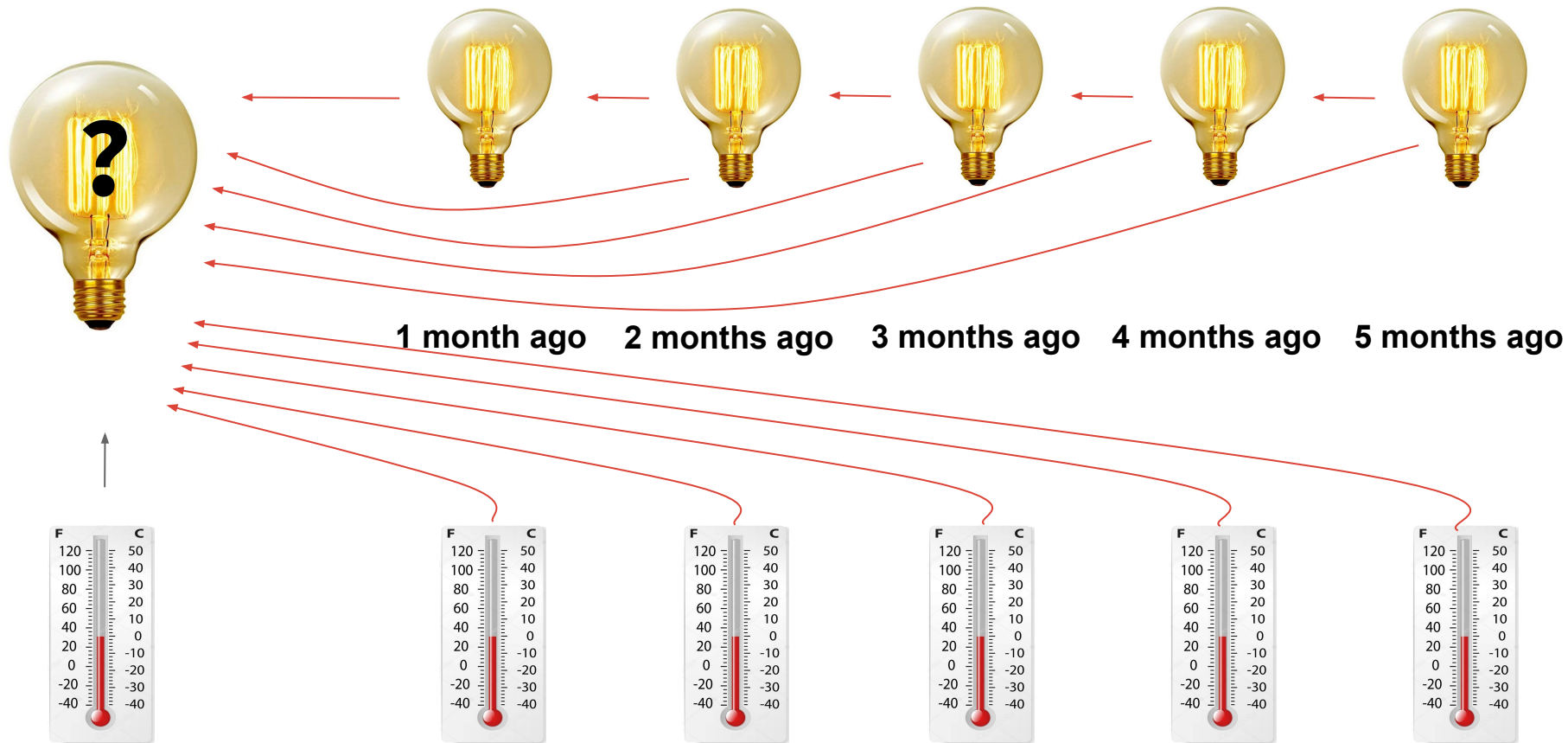Average Building Electricity Consumption in Manhattan (kWh)

Temperature VS. Consumption

Seasonality

Average Building Electricity Consumption in Manhattan

Average Temperature in Central Park

Method

1 month ago   2 months ago   3 months ago   4 months ago   5 months ago
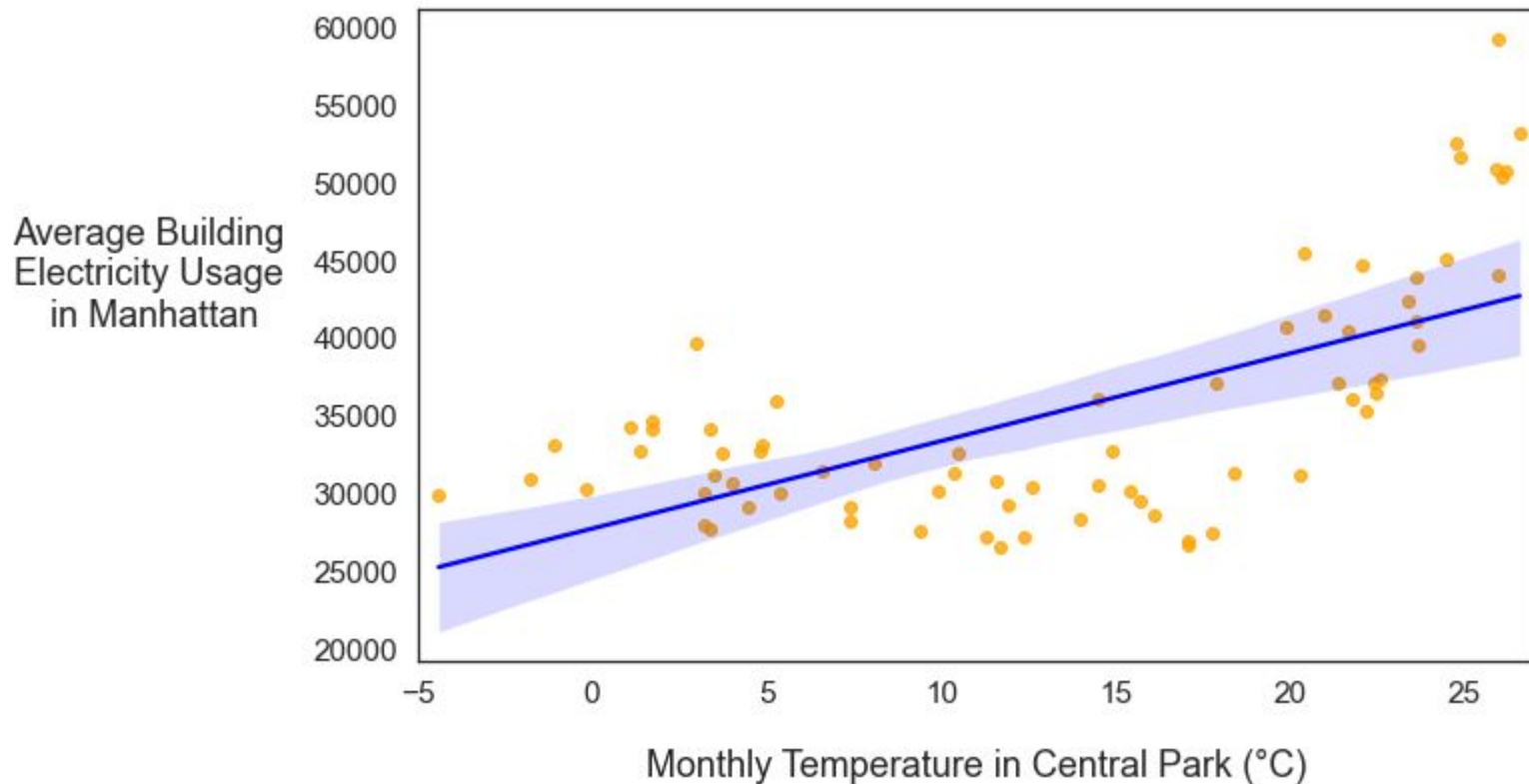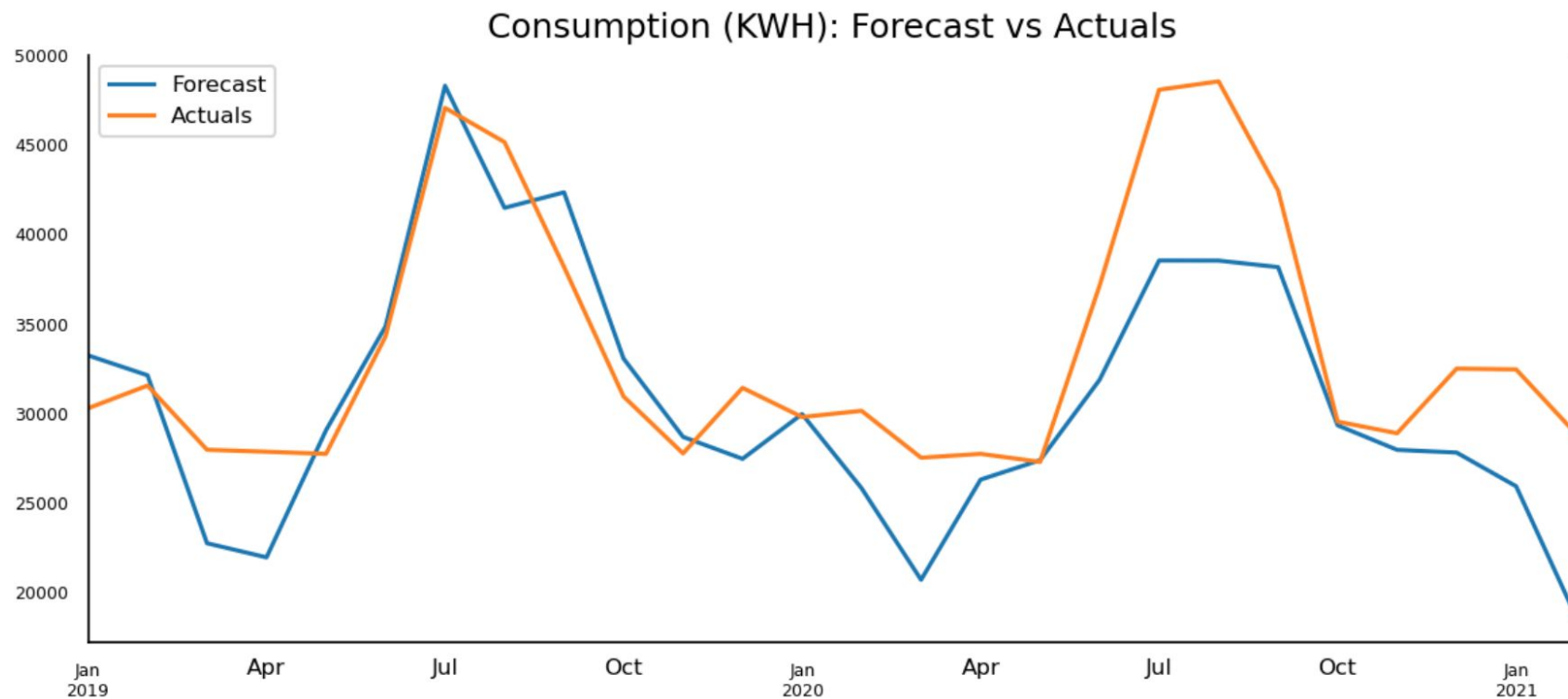
Results
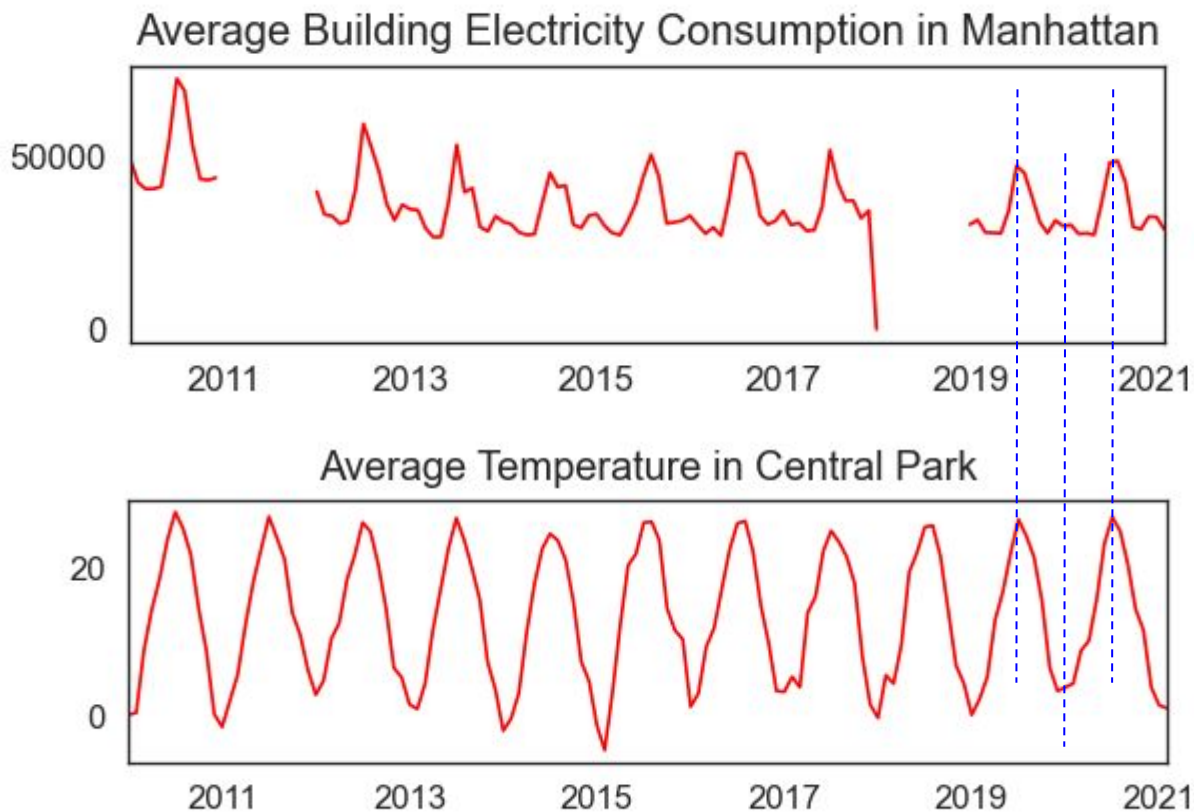
Consumption (KWH): Forecast vs Actuals

Conclusion

- Weather data is useful

- More data will improve prediction

- Predict consumption in different locations

Thank You!