

NEW YORK CITY
ENERGY

SEJIN JANG

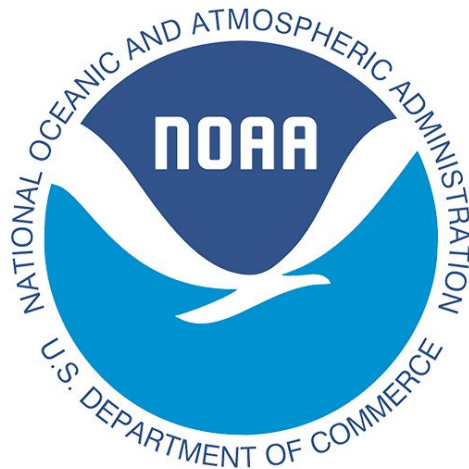
BUSINESS PROBLEM

An aerial photograph of New York City at sunset. The Hudson River is on the left, and the East River is on the right. Central Park is visible in the center, surrounded by dense urban development. The sky is a mix of orange, pink, and blue. The Empire State Building is prominent in the lower right, and the Freedom Tower is visible in the center, partially obscured by the park.

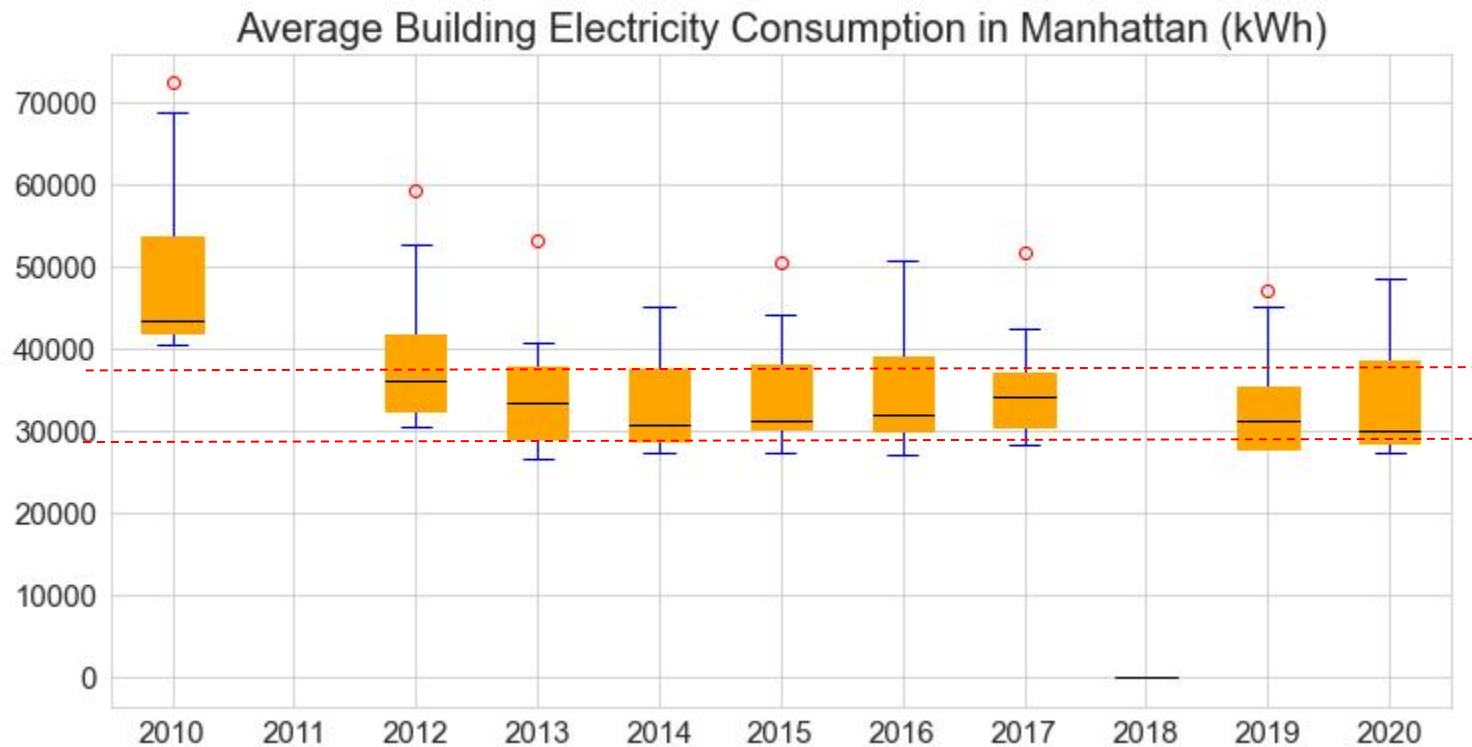
**Analyze future
electricity demand
using weather data**

DATA

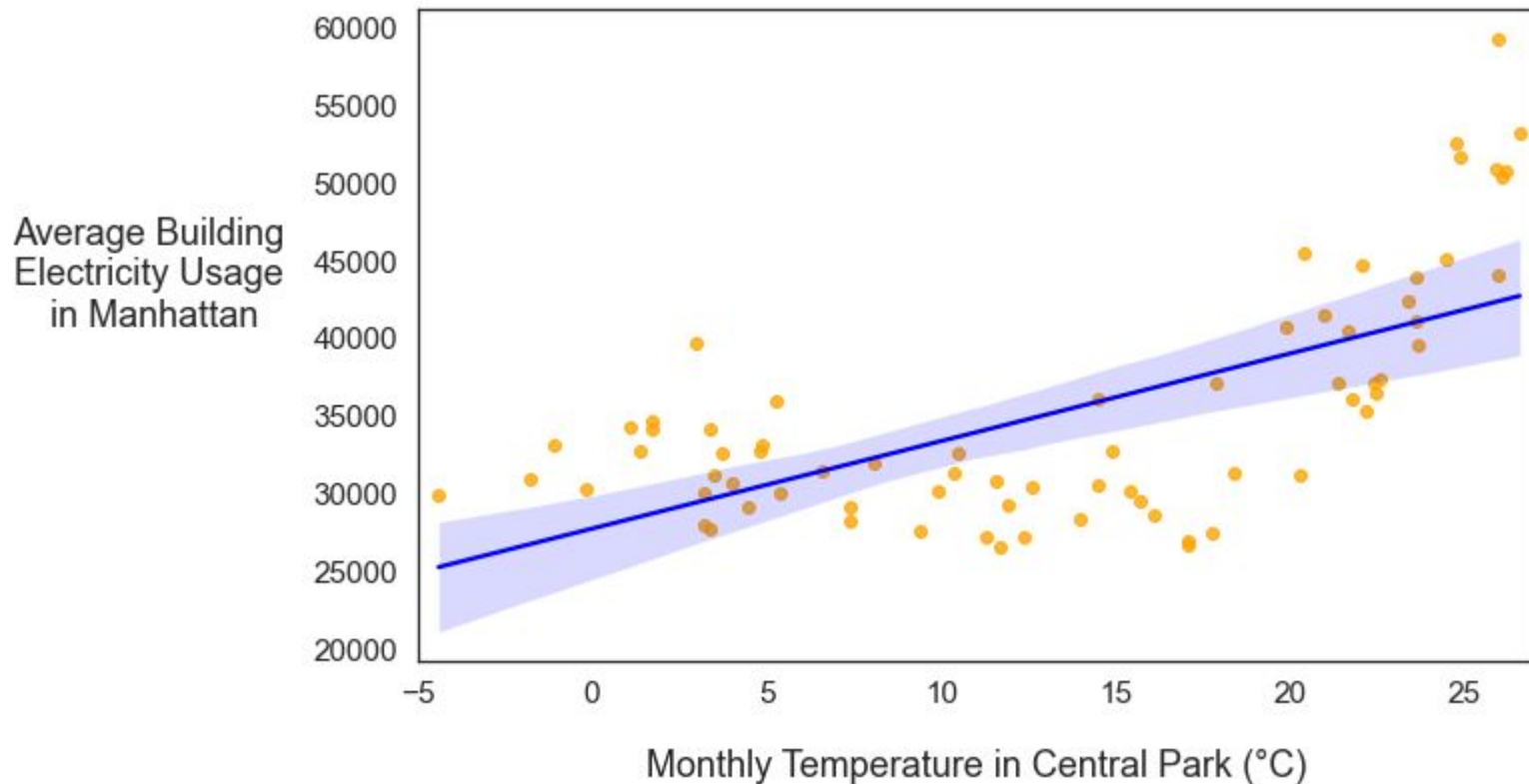
- 2010 Jan - 2021 Feb
- 362,630 records



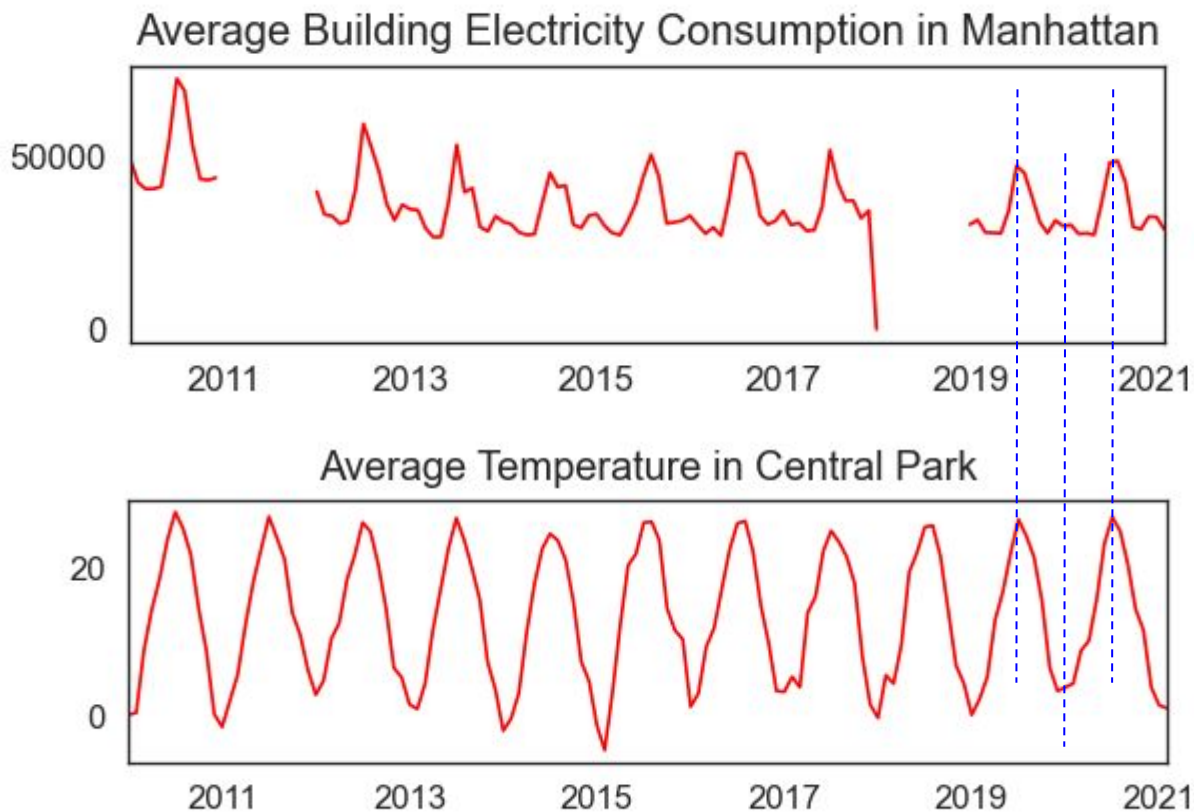
ELECTRICITY CONSUMPTION



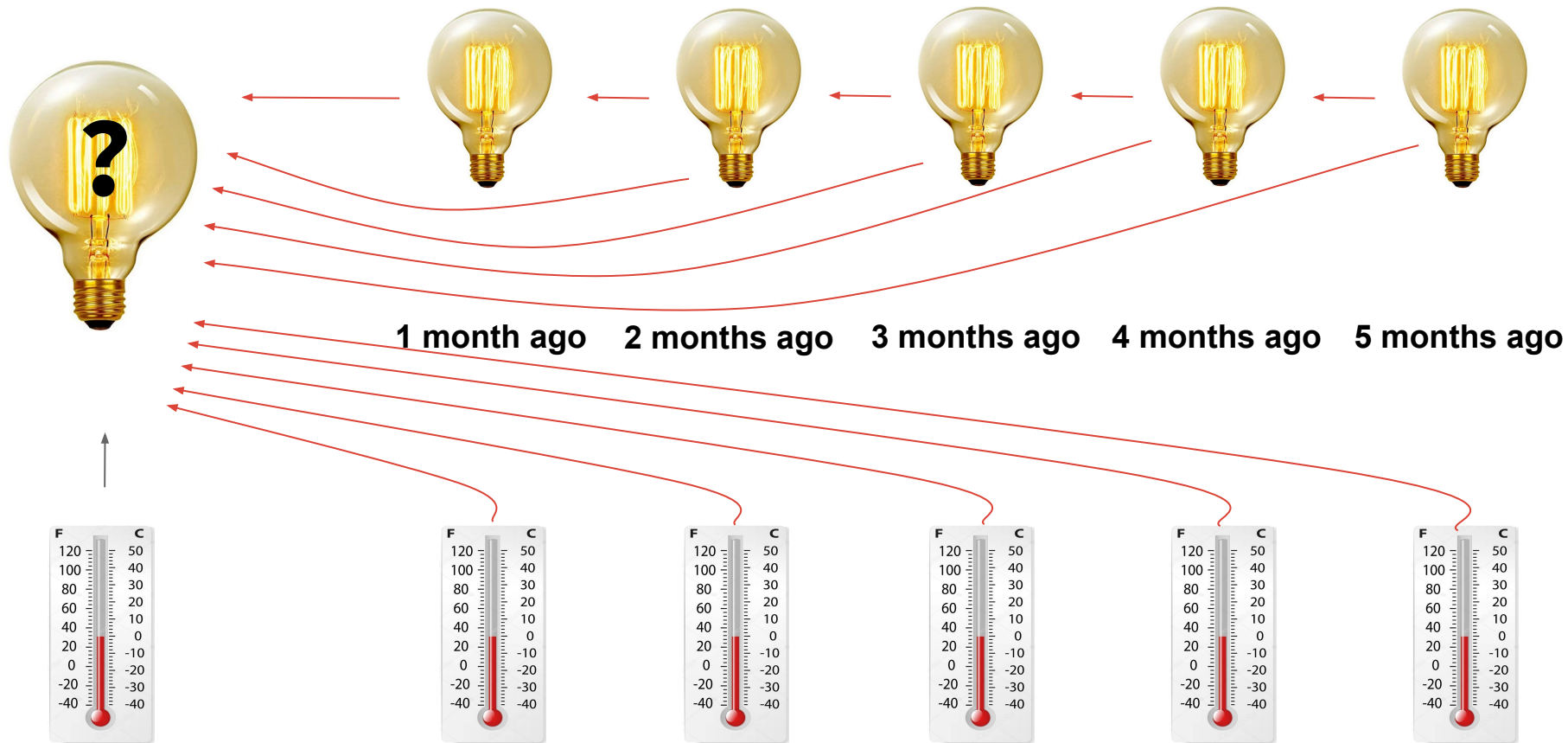
TEMPERATURE VS. CONSUMPTION



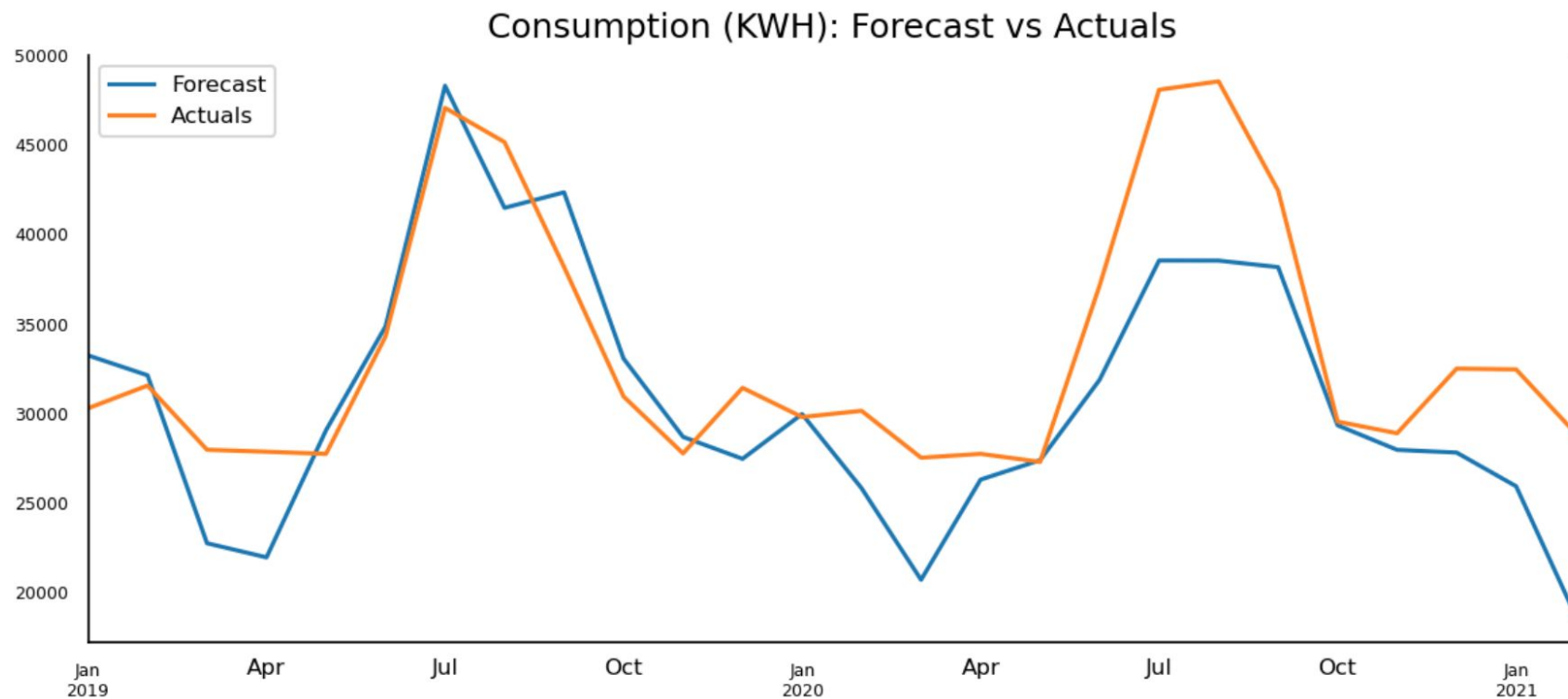
SEASONALITY



METHOD



RESULTS



CONCLUSION

- Weather data is useful
- More data will improve prediction
- Predict consumption in different locations

A wide-angle photograph of a rooftop solar farm. The foreground is filled with rows of blue solar panels. In the background, a city skyline is visible under a clear blue sky. The skyline includes several skyscrapers, a prominent white tower with a spire, and a construction crane. A yellow rectangular box with a black border is centered over the image, containing the text "THANK YOU!" and a URL.

THANK YOU!

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