

NEW YORK CITY ENERGY

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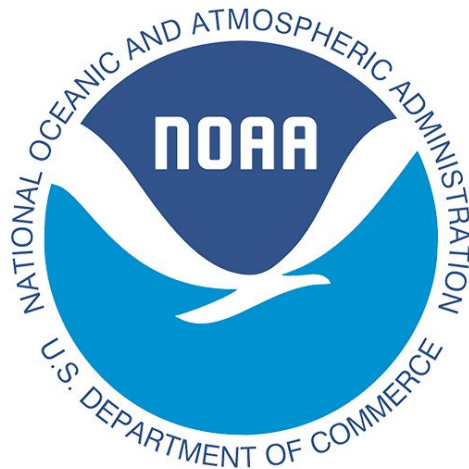
BUSINESS PROBLEM

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 skyscrapers. The sun is low on the horizon, casting a warm orange glow over the city.

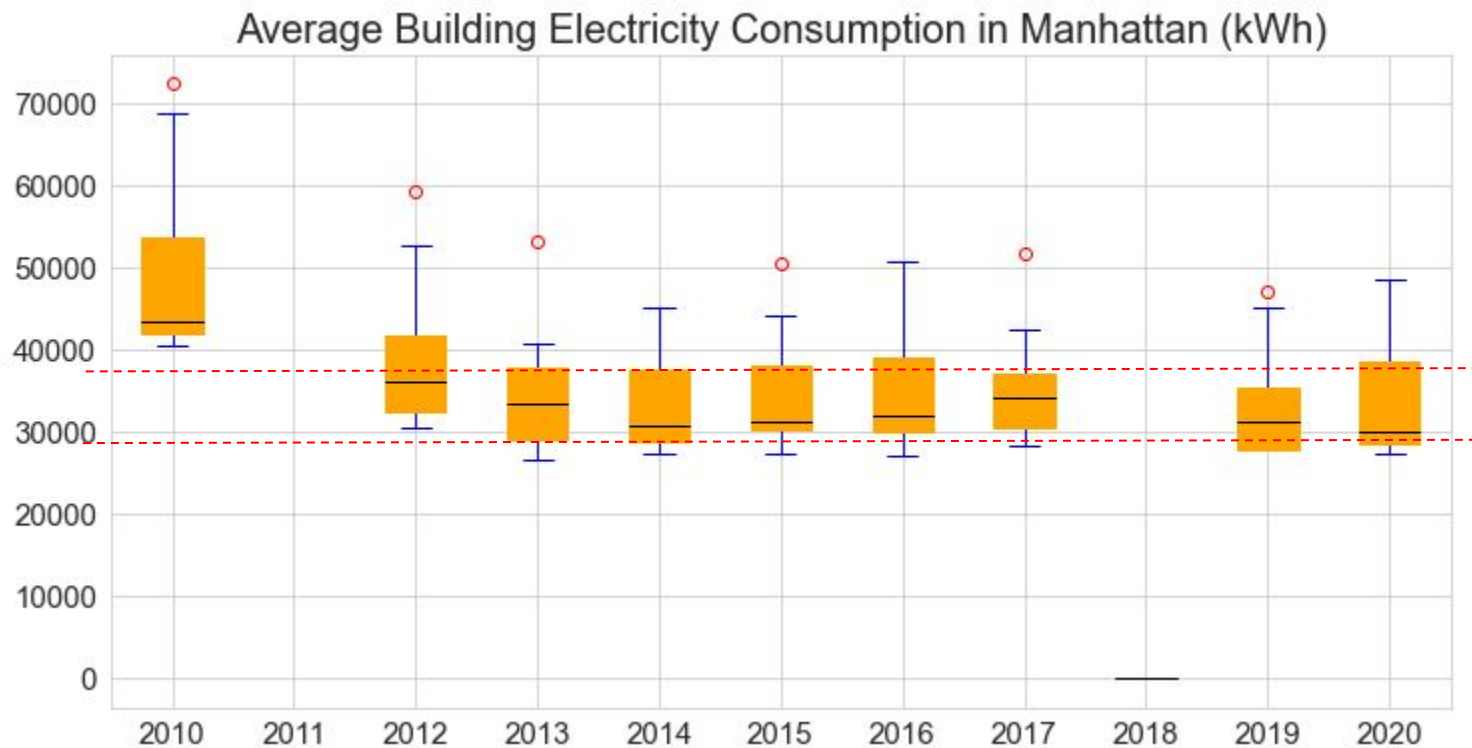
**Analyze future
electricity demand
using weather data**

DATA

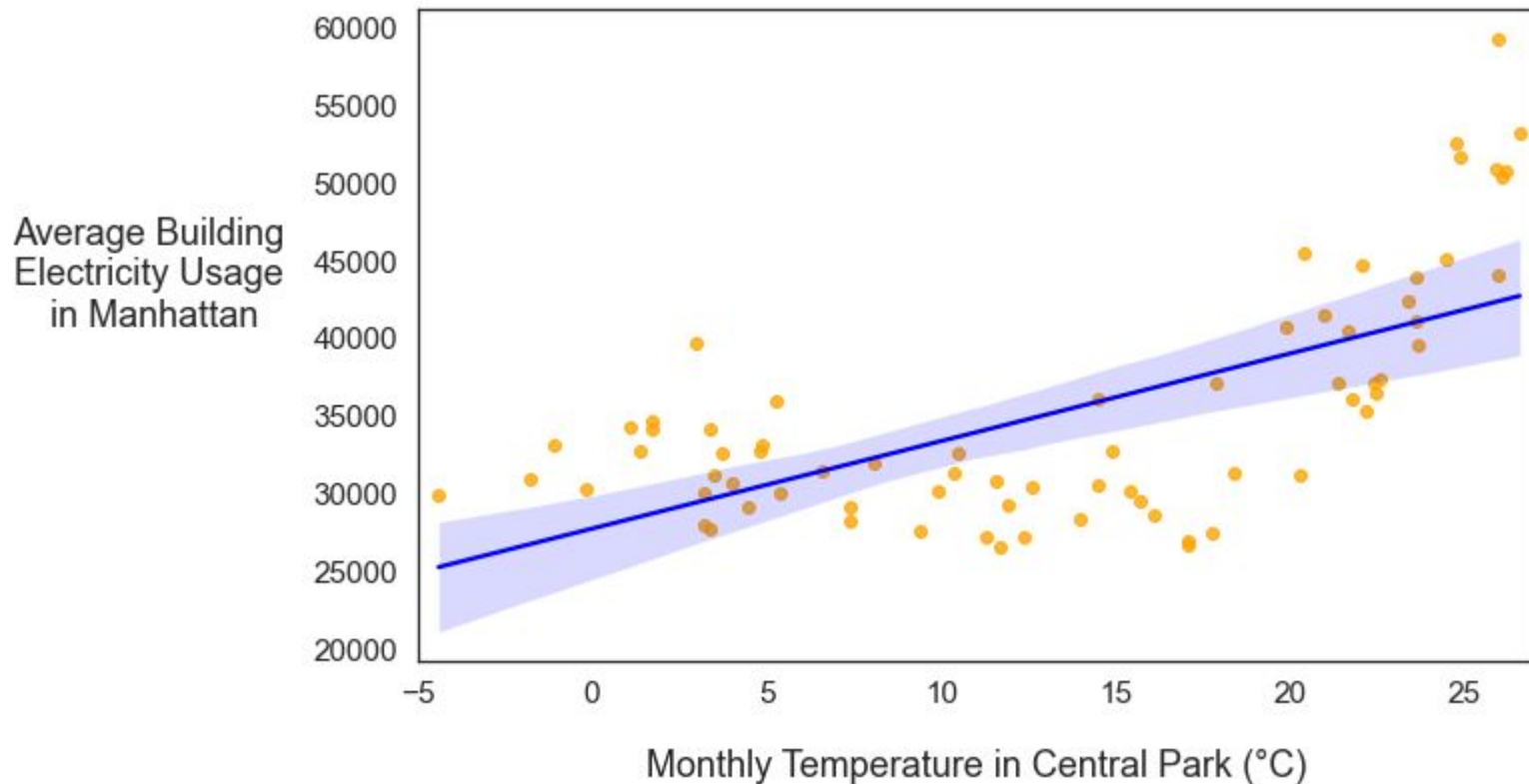
- 2010 Jan - 2021 Feb
- 362,630 records



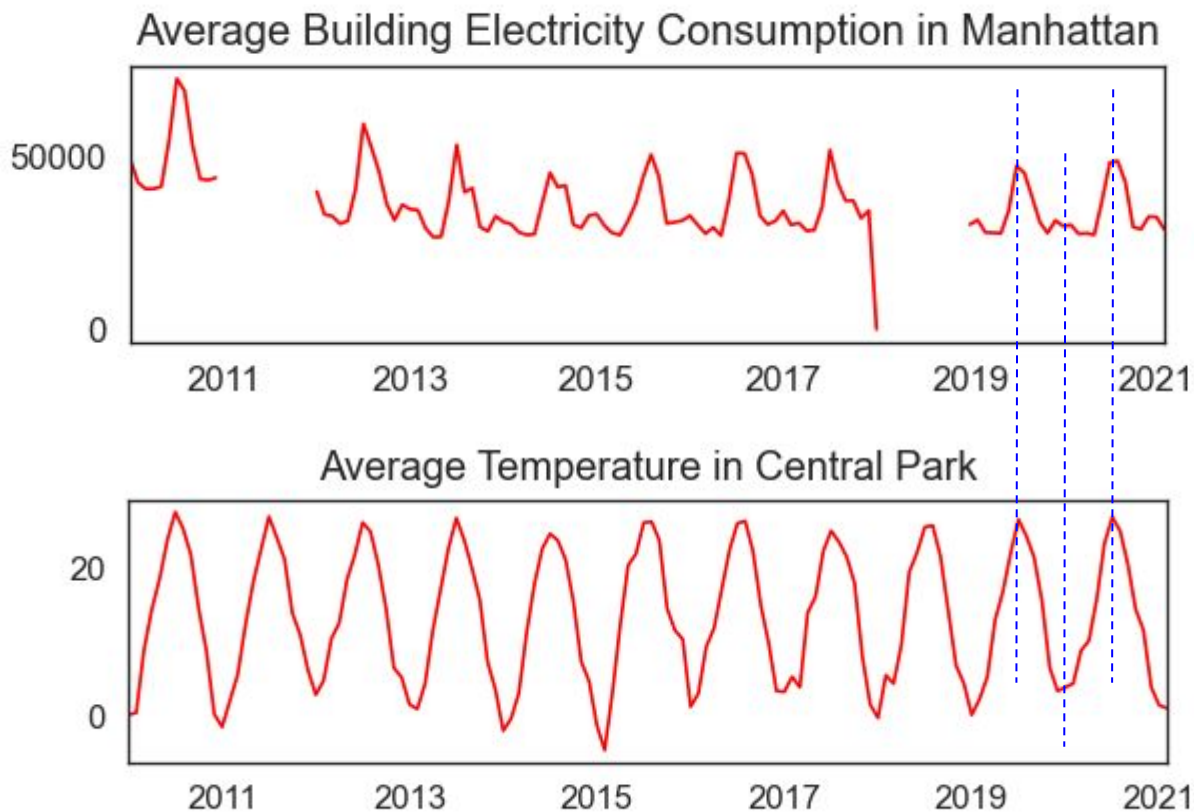
ELECTRICITY CONSUMPTION



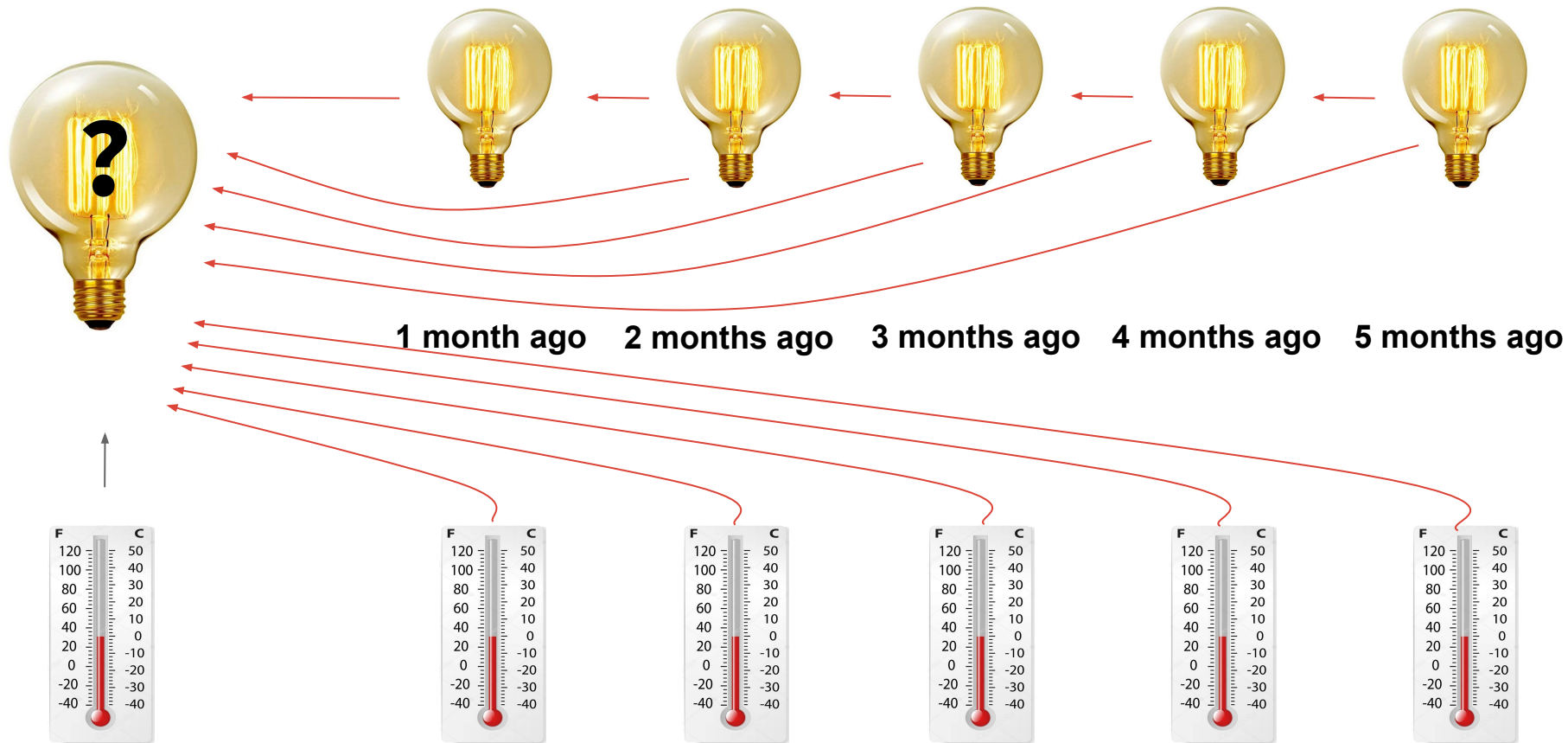
TEMPERATURE VS. CONSUMPTION



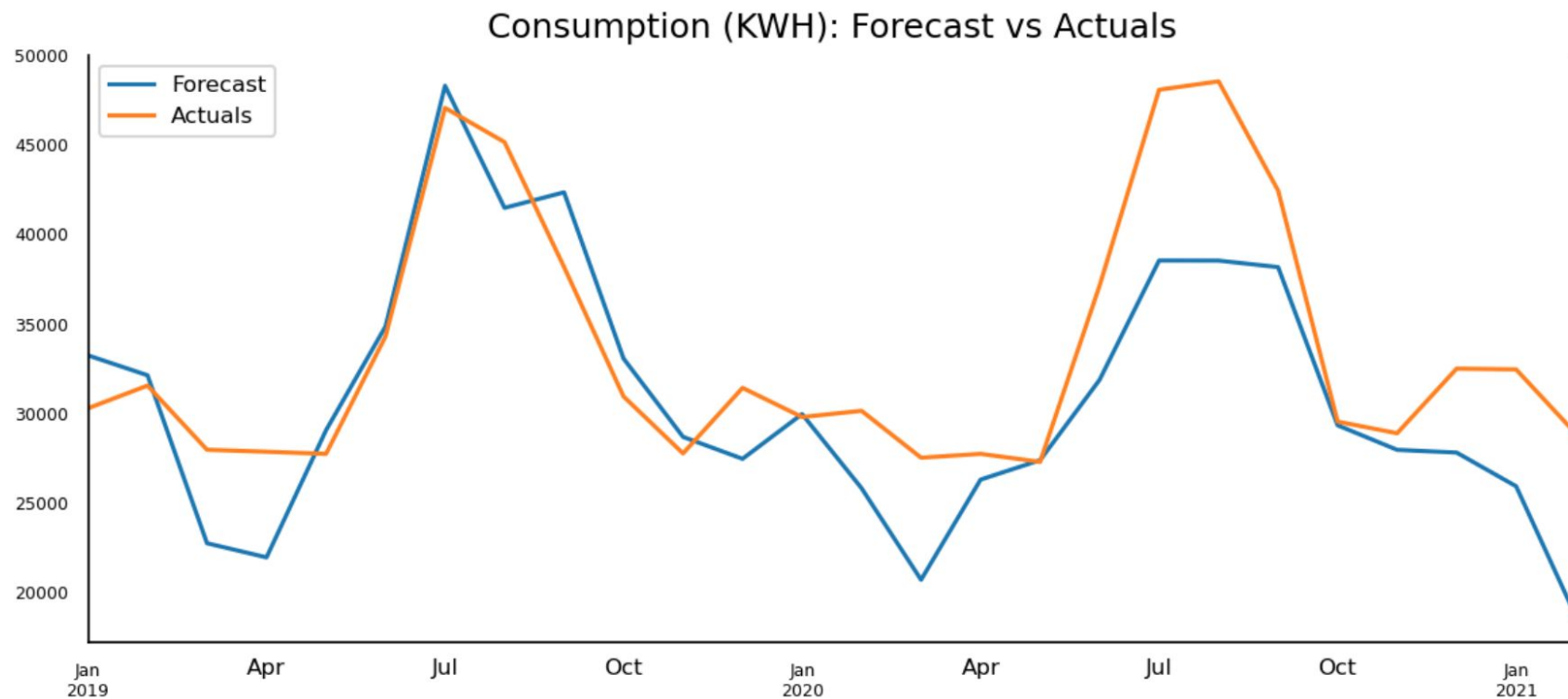
SEASONALITY



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. In the foreground, rows of blue solar panels are laid out in a grid pattern, receding into the distance. Above the panels, a dark metal railing runs across the frame. In the background, a dense city skyline is visible under a clear blue sky. The skyline includes various skyscrapers, a prominent white smokestack, and construction cranes. A yellow rectangular box with a white border is centered in the middle of the image, containing the text "THANK YOU!".

THANK YOU!