Thaddeus Wolkenbruch

Meteorologist
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SUMMARY

Meteorologist with 7 years in energy load forecasting and broadcast severe weather coverage. Runs day-ahead temperature forecasts for a utility portfolio serving 1.4M customers, cut mean absolute error by 0.6°F, and led live coverage through 3 tornado outbreaks. Works in Python, WRF and GOES-R imagery.

EXPERIENCE

Senior Forecast Meteorologist — Tarheel Gridline Energy Forecasting

Raleigh, NC · Mar 2022 – Present

- Issue day-ahead hourly temperature forecasts for 26 utility load zones serving 1.4M customers.
- Cut day-ahead mean absolute temperature error from 2.4°F to 1.8°F by blending 4 model outputs with a bias-corrected ensemble.
- Built a Python verification dashboard tracking 9 forecast variables daily, now used by all 6 forecasters.
- Brief the trading desk at 5:30 a.m. every day on weather risk to peak load and wind generation.

Broadcast Meteorologist — Piedmont Skyline Broadcasting

Greensboro, NC · Jun 2018 – Feb 2022

- Presented forecasts on 3 daily newscasts reaching an average audience of 210,000 viewers.
- Led wall-to-wall coverage during 3 tornado outbreaks, including 4 hours on air for a single storm night.
- Grew the station's weather app alerts from 18,000 to 52,000 subscribers in 2 years with a hyperlocal alert format.

SKILLS

Forecasting: Synoptic and mesoscale analysis, severe weather, winter weather, ensemble interpretation, probabilistic forecasts

Tools: Python (xarray, MetPy), WRF, GrADS, AWIPS, GOES-R imagery, NEXRAD radar, Linux

Data: GFS, ECMWF, HRRR, NAM, METAR, upper-air soundings, reanalysis

Communication: Live broadcast, trader briefings, impact-based messaging, social media alerts

CERTIFICATIONS

AMS Certified Broadcast Meteorologist (CBM), 2020

NWS SKYWARN Spotter Training

EDUCATION

B.S. Meteorology, North Carolina State University, 2018

Fictional example by FindAJobAI: the person, employers and numbers are invented.