

Matt Motoki

Business Data Analysis & Trend Forecasting · Kaggle Grandmaster

Remote | mattmotoki.github.io | [Kaggle](#) | [GitHub](#) | [Google Scholar](#)

Data scientist with over a decade of experience turning business and operational data into clear analysis and accurate forecasts. **Kaggle Competitions Grandmaster** (peak global rank 18) with 13 national and international awards in prediction and forecasting competitions run by NASA, the U.S. Department of Energy, and the U.S. Department of Justice. Comfortable owning the whole path: cleaning the data, finding what actually moves the numbers, building and validating a forecast, and writing up the result so a non-technical reader can act on it.

EXPERIENCE

Shifted Energy — Staff Data Scientist | Honolulu, HI / Remote · Aug 2021 – Jun 2025

Led production machine-learning, forecasting, and optimization systems running across thousands of connected devices worldwide. Built the measurement and verification analyses used to report performance to executives, customers, and utility partners.

H2O.ai — Senior Data Scientist | Mountain View, CA / Remote · Jun 2020 – Aug 2021

Built algorithms and product features for **enterprise AutoML software** and partnered with customer-facing data scientists on Fortune 500 forecasting and business-prediction use cases.

Iterable — Senior Data Scientist | San Francisco, CA · Jun 2019 – May 2020

Developed machine-learning methods for **terabyte-scale customer engagement prediction**, modeling individual customer behavior from large-scale business event and interaction data.

Independent — Data Science Consultant | Honolulu, HI · Jul 2017 – Jun 2019

Delivered analyses, forecasts, predictive models, and dashboards for a remote-sensing startup, academic researchers, and local businesses.

HiVet Solutions — Data Scientist | Honolulu, HI · Mar 2016 – May 2017

Analyzed workforce, hiring, and compensation data with HR and Finance teams, turning internal business data into staffing and budget decisions.

ANALYSIS & FORECASTING — SELECTED COMPETITION RESULTS

- **NASA Airport Throughput Prediction Challenge**, 2025 — **1st Place · \$30,000** — predicting short-horizon trends from large historical operations data
- **Power Patterns Challenge**, 2024 — **1st Place · \$3,000** — exploratory analysis and customer segmentation, delivered as a written report with recommendations
- **Net Load Forecasting Prize** (U.S. DOE), 2023 — **2nd Place · \$150,000** — large-scale trend forecasting under high uncertainty
- **Digitizing Utilities Prize** (U.S. DOE), 2023 — **Phase 1 Winner · \$75,000** — analytics application turning messy operational data into decisions
- **ASHRAE Great Energy Predictor III**, 2019 — **1st Place · \$10,000** — large-scale tabular prediction on Kaggle (3,600+ teams)

Also: eight further awards in forecasting, prediction, and optimization, including the American-Made Solar Forecasting Prize (Runner-up · \$25,000) and two NeurIPS CityLearn Challenges (1st and 2nd). \$350,000+ total across 13 awards (2017–2026).

EDUCATION

- **Doctoral Research, Electrical & Computer Engineering** — University of Washington · 2022 – 2025 — machine learning, game theory & optimization for large-scale prediction
- **M.S., Electrical Engineering** — University of Hawai'i at Mānoa · Dec 2015
- **B.S., Mathematics** — University of Hawai'i at Mānoa · Aug 2014

CORE SKILLS

Exploratory data analysis · Trend & time-series forecasting · Business metrics, KPIs & driver analysis · Segmentation & cohort analysis · Backtesting & honest forecast validation · Statistical testing & uncertainty quantification · Python (pandas, NumPy, scikit-learn) · SQL & PostgreSQL · Data visualization (matplotlib, Plotly) · Written reporting for non-technical stakeholders · Gradient boosting & tabular ML