

# Nick Calow

Data Scientist in the Boston area, particularly interested in Time Series Analysis. Passionate about using smart tools and critical analysis to solve consequential, real world problems in today's ever-changing world.

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[Github](#)

[Linkedin](#)

[Portfolio](#)

## Data Science Projects

### [Analyzing Energy Generation in the United States](#)

- Collected and examined publicly available data and utilized multiple ensemble models to determine at what point total electricity generation in the US would be 50% renewable. Projected to 2050 using Facebook Prophet and critical research, arriving at a conclusion of between 2033 and 2042.

### [FEMA Damage Assessment With Google Maps](#)

- Completed a project for New Light Technologies that accepted a list of 10 addresses and generated damage assessment forms for each, while efficiently routing the 10 addresses via the Traveling Salesman Problem. Utilized Google Maps API, Streetview API, and Flask to add route guidance and Street View images

### [Reddit Web Scraping](#)

- Utilized the Reddit API and classification modeling techniques to analyze and differentiate two different subreddits. Used Bag of Words and Decision Tree Classification models.

## Work Experience

### **Data Science Fellow — General Assembly Boston**

June 2019 - August 2019

- Completed 500+ hour immersive program to apply statistics, programming, data analytics, machine learning, and modeling skills through constant practice and real world application.  
- Built and evaluated models using a full suite of tools such as Linear and Logistic Regressions, Decision Trees, Neural Networks, Random Forests, and more.

### **Technical Stage Staff - Royal Caribbean**

November 2017 - March 2019

- Worked aboard two vessels in the Royal Caribbean Fleet backstage. Sharpened my skills and rapidly learned new ones, such as ice floor maintenance with a Zamboni.

## Technical Skills

**Python:** Pandas | Numpy | Matplotlib | Seaborn

**Sklearn:** Decision Trees | SVM | Lasso | Linear Regression | Bagging/Boosting | Random Forests

**Time Series Analysis:** SARIMAX | VAR | Facebook Prophet

**Neural Networks:** Keras | CNN | RNN | LSTM | TensorFlow

**NLP:** Bag of Words | WordtoVec | NLTK

**Git/Github**

**SQL Queries**

## Education

**University of Massachusetts Amherst — BA in Technical Theater**

September 2013 - May 2017

## Interests

Woodworking | Fencing | Theatre | Science Fiction | Writing | Exploring

