

BRITTANY BENNETT

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DATA SCIENCE EXPERIENCE

Neural Net to Identify Rooftop Area for Solar Policy

2019

[Independent capstone project](#) for data science bootcamp.

- Built a data generator to apply random cropping and rotations to 100+ hand labeled data.
- Constructed and trained a convolutional neural net architecture based off the U-NET architecture.
- Ran the trained model on all 1,800+ satellite images for Denver, CO to determine the total estimated rooftop area in the city, then determined that full solar coverage of all rooftops in Denver could not meet Denver's residential electricity needs.

Data Science Fellow

2018

Enrolled in [Springboard's online 6-month Data Science Career Track](#) program.

- Investigated a drop in [Yammer user engagement data](#) using SQL and concluded that a broken link in an email was the culprit to the dip.
- Performed three exploratory data analyses using Python that included techniques such as hypothesis testing, one-sided t and z tests, and bootstrapping.

PROFESSIONAL EXPERIENCE

Development Manager

New Era Colorado, Denver, CO

2018-Present

Lead fundraiser for Colorado's largest young voter mobilization organization.

- Led the evaluation of switching New Era's CRM from EveryAction 7 to EveryAction 8, including a quantitative assessment of the impact on staff time and revenue of switching merchant gateways.
- Analyzed years of data from New Era's monthly member in Python program and leveraged insights to propose to the Executive Director strategies and tactics to reverse the rate of attrition and grow the program to twice it's revenue within a year.
- Led communications with donors via written acknowledgements, email appeals to 3,000+ person lists, social media blasts across three platforms, and 1:1 meetings with key stakeholders.

Executive Director

Engineers for a Sustainable World, Remote

2016-2018

Executive Director of a national sustainability nonprofit with over 50 chapters at universities—remote work.

- Cleaned and analyzed donor data in R from the past 10 years to guide future fundraising practices, such as how to improve ESW's monthly giving program and who represents our best donor profile.
- Managed a digital team of over 30 volunteers, Board Members, and Advisory Board Members via Slack, Google Suite, and Zoom.
- Created and launched Build Day, a national program to build more sustainable communities by empowering neighborhoods to gather and complete one-day builds.

EDUCATION

Smith College, Northampton, MA

GPA: 3.53

B.S. Engineering Science

2011-2016

Awards: Bechtel Scholarship, Bechtel Corporation; Sustainable Leader, Smith College; Prize for Sustainability, Ford Motor Company; New Faces of Engineering, DiscoverE, The Nancy Hellman Prize

Skills: Python, SQL, R, data mining, data visualization, machine learning, fundraising, nonprofit leadership