Michelle Griffith /// Data Scientist

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LinkedIn | GitHub

I am a data scientist with a background in physics and research. I am proficient in python, data analytics, statistical analysis, and machine learning models. My experiences working with cleantech startups and in research have focused my drive to contribute to socially and environmentally minded organizations in order to achieve their goals, by harnessing the power of data to extract insights to tell a meaningful story that can lead to actionable steps forward.

SKILLS

Technical: Analytics with Python, Machine Learning Models, Predictive Modeling, Natural Language Processing, SQL, Data Analysis, Data Visualization, Microsoft Products, Statistics, Statistical Analysis, pandas, scikit-learn, Jupyter Notebooks, Thin Film Solar Cells Research, Experimental Design, Database Management, Cleaning Large Unstructured Datasets, Dashboarding, Salesforce CRM Software

Communication & Business: Public Speaking, Technical Writing & Presentations, Customer Focused, Team Building and Instruction, Leadership & Teamwork, Quick Learner, Adaptable, Ability to work Independently, Driven by Integrity

PROFESSIONAL EXPERIENCE

Thinkful, *Remote* /// Data Science Training

SEPTEMBER 2020 - MARCH 2021

Topics Covered Include: Python, Pandas, Visualization in Python, APIs, Web scraping, SQL, Experimental Design, A/B Testing, Statistical analysis, Exploratory Data Analysis, Supervised Learning, Unsupervised Learning, Intro to Big Data, Time Series Analysis

Selected Projects Completed at Thinkful:

***Spotify Clustering*: Clustering and Classifying Songs from Spotify**

- Performed and Tuned Clustering Algorithm on large dataset of spotify songs
- Visualized the results with Dimensionality Reduction techniques
- Classified the different clusters based on musical characteristics

***Studying SCOTUS*: Using Supervised Learning Models to Predict a Supreme Court Justice's Vote**

- Deployed Gradient Boosting Classifier Models that predicts how judges will vote based on relevant features
- Implemented techniques to tune models for hyperparameters that increase accuracy and reduce overfitting, such as validation curves, Random Search, and Grid Search Cross Validation

***Pulse of the Nation*: How Income & Age Affect Political Opinions, Experimental Design & Statistical Analysis**

- Constructed a statistical analysis project based on data from a random political survey found on Kaggle
- Tested the null hypothesis statistical significance tests (such as t-tests and kruskal-wallis tests) using that there is no difference in age and income between how survey participants answered politically and culturally minded questions

National Renewable Energy Laboratory, *Golden, CO* /// Business Intern

MAY 2011 - NOVEMBER 2012

- Intern for the Industry Growth Forum, an annual business pitch competition hosted by NREL for cleantech startup companies to raise funding and access resources from NREL
- Communicated directly with and counseled cleantech startup companies and entrepreneurs in different stages during their application process to present their business pitch at the Industry Growth Forum

National Renewable Energy Laboratory, *Golden, CO* /// Photovoltaics Researcher

MAY 2013 - AUGUST 2013

- Conducted research to optimize Cadmium Telluride (CdTe) thin film solar cells
- Operated sputtering systems, and characterized the results on final device performance
- Presented insight from research into optimal parameters for the Cadmium Sulfide layer of a CdTe solar cell

EDUCATION: **Colorado School of Mines,** *Golden, CO* / Bachelor of Science, Engineering Physics, 2014, *Cum Laude*