

ALEXANDRA GARNEY

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SKILLS

PROGRAMMING LANGUAGES: R, Python, SQL

MACHINE LEARNING: Regression, Classification, Natural Language Processing, Neural Networks, Image Classification, Deep Learning

LIBRARIES/Frameworks: Pandas, NumPy, BeautifulSoup, Selenium, StreamLit, Gensim, NLTK

DATA MANAGEMENT: Git/Github, Mongo DB, DB Browser, ETL, Data Pipelines

DATA VISUALIZATION: Matplotlib, Seaborn, Tableau

CLOUD COMPUTING: Google Colab

EXPERIENCE

Metis

Data Scientist · Apr. 2021 to July 2021 · Remote

Completed a 14-week licensed data science and machine learning bootcamp, which included regression, web scraping, project scoping, visualization, classification, NLP, deep learning, and data engineering. Highlighted projects include:

Reducing Echo Chambers Through a News Anti-Recommendation Engine

- Created an ETL pipeline with the NewsCatcher API with current news to feed into a natural language processing Word2Vec model and VADER sentiment analysis with the goal of recommending new articles from a variety of perspectives
- Leveraged StreamLit to create a publicly accessible app

Improving Government Form Processing Times with Handwritten Word Recognition

- 115,000 handwritten word images were explored to create a convolutional neural network in Keras to read handwriting with computing through Google Colab Pro
- The resulting model had an accuracy of 86% on unseen data

Philadelphia Property Taxes: Are They Fair?

- Developed a linear regression with feature engineering to understand variance in Philadelphia property's assessed tax value using Scikit-learn
- 50% of the variance in property value was explained in the final model with house sales price and neighborhood location having the largest impact on variance

Small Business Marketing Strategy for Maker Megan

- Created a classification model optimized for F1 score for a local business looking to increase sales through their e-commerce platform
- The resulting logistic regression model was tuned using grid search and features most impactful in predicting

Widener University

Civic Engagement Program Manager · Sept. 2019 to Apr. 2021 · Chester, PA

- Advise 80 community service scholarship students including research-based grant proposals/advocacy campaigns/policy briefs, volunteer placements, and professional development
- Lead inaugural Millennium Fellows projects centered on the U.N. Sustainable Development goals
- Design and improve training and curriculum for all campus-wide civic engagement programming series including volunteer fairs and voter registration/education

University of Pennsylvania

College Prep and Careers AmeriCorps Member · July 2018 to Aug. 2019 · Philadelphia, PA

- Established and strengthened relations between employers in the West Philadelphia community and the Netter Center to increase work readiness opportunities for high school students
- Created paid internship placements for 30 high school students through grant funding
- Developed and facilitated course around creating change and youth power in the workplace

University of Delaware

Residence Hall Coordinator · July 2016 to July 2018 · Newark, DE

- Supervised and developed 14-16 undergraduate staff members utilizing a curriculum centered on strategies for encouraging reflection, skills for conflict management, and active listening
- Analyzed qualitative and quantitative data to evaluate student learning, staff performance, and program effectiveness. Implemented data-driven design changes to curriculum implementation
- Developed training aimed at improving experience of underrepresented students on-campus informed by research of best practices and focus groups with students

EDUCATION

University of Chicago · July 2020 to Sept. 2020

Summer Program Data and Policy Scholar 2020

University of Central Florida · Aug. 2014 to May 2016

Master of Education Curriculum and Instruction 2016

Pennsylvania State University · Aug. 2010 to May 2014

Bachelor of Science Elementary Education 2014