Mark Espina

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DATA SCIENTIST

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Skills/Technologies

- Programming: Python (Pandas, SKLearn, Seaborn); SQL (Postgres, MS SQL Server); GitHub; HTML/CSS
- Statistics: A/B, AB/AAB testing; linear regression; kNN; unsupervised/supervised learning;
- Business Analysis: Requirements gathering; project/scope management; client relationship maintenance
- CRM/ERP: Donor Perfect, Raiser's Edge

Education

THINKFUL *Data Science Program*   Mar. 2019
Machine Learning, K-means clustering, KNN, penalized linear modeling, ensemble and boosting methods

Fordham University B.A. in Sociology   May 2016
Social Research Methods, Macroeconomics, Biopsychology

Projects

Predicting Firefighter Response Times
Machine Learning modelling of the Response Times of New York City Firefighters
- Created data cleansing pipeline with python/pandas and Regex for multiple datasets (>2M rows)
- Performed multivariate testing of Time series, neighborhood, incident type data with t-tests to identify key trends
- Visualized trends in data with Seaborn

Analysis of Non-profits in the United States
Market analysis of non-profits focusing on revenue trends of organizations based in the Pacific Northwest
- Created data cleansing pipeline for multiple tax datasets (>1M rows)
- Researched IRS Tax documentation to check for duplication in data files
- Generated easy to interpret visualizations to support analysis with seaborn and matplotlib charting libraries

STAR Initiative - Streamlined Tech for Automated Reporting
Automated data reporting workflow, cleared 6-month manual data entry back-log within 2 weeks of release
- Wrote DDL SQL queries in SQL Server to store new data, DML SQL queries to track new dataset in MS Access
- Managed database with VBA and MS Access Debugger, built automated tests for data accuracy

Professional Experience

Data Specialist at Sunshine Division Food Pantry   Sept. 2017 - July 2018
- Researched and implemented cross-departmental data management and ETL policies and practices for data tracking
- Automated ETL processes to pull data from Microsoft Access, Excel, and Donor Perfect using python
- Company lead for data analysis across all platforms, presented to development, finance, and operations staff

Volunteer Experience

Diversity, Equity and Inclusion helper at Dharma Rain Zen Center   *Sept. 2018 - Present*
- Worked with internal analytics team on Diversity, Equity, and Inclusion (DEI) survey data from incarcerated members
- Co-facilitated a focus group for members of color evaluating temple policies with a focus on racial justice equity

Awards/Honors

Portland Police Bureau Medal of Commendation in Community Service   2018
Gerard E. Corrigan Scholar   *2016*