NATALIE M. OLIVO

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I am a meticulous and incisive insight-finder, a dynamic collaborator, and a life-long learner. I have an aptitude for technical challenges, and with my experience in applied mathematics and training in data science, I bring a determined vivacity to each step of the problem-solving process, bringing grand visions to life.

Professional Experience

Student, GENERAL ASSEMBLY, Data Science Immersive Bootcamp   October 2017 - December 2017
Project-based training program that focuses on statistics, data analysis and visualization, and machine learning.

- SAT Participation Case Study: Exploratory data analysis and hypothesis testing; presentation of results focusing on bringing value to business applications.
- Liquor Sales Linear Regression: Linear models to predict sales, cross-validation to evaluate model performance, and regularization tactics to compare model performance; executive summary to communicate results.
- Web Scraping and Classification: Web scraping combined with unsupervised and supervised classification models (random forest, logistic regression, random forest); formal presentation of results.
- Geospatial data and XGBoost Model: create preventative measures to curb West Nile Virus in Chicago; formal presentation, 81% accuracy on Kaggle.
- Twitter API, Amazon Web Services, Natural Language Processing and Latent Dirichlet allocation Topic Modeling: Derive business insights from text data; formal presentation of results to stakeholders.

Actuarial Contractor, LYNCHVAL SYSTEMS WORLDWIDE, Washington, DC   March 2017 – Present
The Pension Benefits Guarantee Corporation (PBGC)

- Worked on client site with a team to deliver an annual data scraping, collecting, and reasonability checking process to update a database which will be used to project future Pension Insurance performance.
- Over a span of 15 weeks, utilized the Department of Labor Form 5500 website, Visual Basic Macros, MS Excel, and proprietary software to create a database for 450 Single-employer plans and 250 Multi-employer plans.
- Automated a number of checking and reasonability processes by writing Visual Basic macros and teaching team members how to use and modify them, shaving a day's work off of each week of the project.
- Consistently reached deadlines early to assist with managerial tasks and big-picture reasonability checking.
- Advanced to manager of a pricing trial for an initiative correcting and amending historical Multi- and Single-Employer plan data.

Actuarial Analyst, WILLIS TOWERS WATSON, Boston, MA   July 2013 – June 2016

- Engineered plan-specific spreadsheets and macros to produce bulk benefit calculations for bulk lump sum offerings and accrued benefit computations.
- Analyzed and implemented proprietary models for pension valuation per PPA, PBGC and ASC guidelines.
- Conducted non-discrimination testing with reasonable assumptions in accordance with government regulations.
- Served as internal office resource and mentor in preparing government forms and using new submission software.
- Manipulated and analyzed large data sets to develop annual plan liability projections using Excel.
- Facilitated intern and new hire on-boarding by conducting interviews and leading the Microsoft Excel training.

Technologies & Skills

- Languages: Python, SQL, R, VBA, HTML, and CSS
- Methodologies: Analysis and visualization, Machine learning, Natural language processing, Statistical modeling

Education & Certifications

GEORGE WASHINGTON UNIVERSITY, Washington, DC   July 2016 – December 2016
Graduate coursework in Data Science, International Trade, and Economics. GPA 3.67/4.0.

BALL STATE UNIVERSITY, Muncie, IN   May 2013
Bachelor of Science in Actuarial Science with Honors, Minor in Foundations of Business. GPA 3.6/4.0.

SOCIETY OF ACTUARIES
Passed two actuarial exams on financial mathematics and probability/statistics topics.