NATALIE M. OLIVO

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A bold Machine Learning Engineer with experience bringing grand visions to life at rapidly growing Tech startups.

Skills

- AWS
- CI/CD
- Databricks
- Docker
- Git
- HuggingFace
- MLFlow
- Python
- Pyspark
- RESTful APIs
- scikit-learn
- SQL

Professional Experience

Machine Learning Engineer II INTEROS   Oct 2019 - Oct 2022

Member of a team responsible for breaking down complex tasks around relationship discovery, extraction and deduplication into micro-services to support the creation of a global relationship graph.

- Regularly delivered customer-impacting ML-powered features to production. [Scikit Learn, PyTorch, TensorFlow]
- Lead developer of a document-based relationship extraction process with a multi-faceted pipeline which supports the re-training of the models, and archival features. [AWS Textract, Ground Truth, HuggingFace]
- Automated the time-intensive, manual process of web-based relationship discovery responsible for detecting 650k B2B relationships from the internet and ingesting them to a proprietary knowledge graph.
- Developed a unit testing framework for functionality heavily reliant on external services. [Docker, Pytest]
- Established and leads a monthly reading group on the latest academic work in the field of machine learning.

Machine Learning Engineer SOKAT CONSULTING   Nov 2018 - Sept 2019

Member of a five-person team tasked to use machine learning to enable data-driven decision making for Grantsolutions.gov

- Produced a two-time government innovation award winning risk analysis tool to help safeguard Federal Grant Investments by bringing together critical data and analysis from more than seven publicly available sources.
- Created a pipeline to collect data from 700,000+ online IRS forms, perform data cleaning and output to semi-structured and structured formats, to support models and data dashboards. [AWS EMR, S3, Batch]
- Used a hierarchical clustering model for analysis of grantee mission, spending, and earning patterns over time.

Senior Vendor/Industrial Base Analyst PANTHEON INTEGRATED SOLUTIONS Apr 2018 - Nov 2018 Apply data science solutions for procurement to the Department of Navy's VIRGINIA Class Program Office

- Used Python programming language to increase analytical capabilities, reducing the time to evaluate historical labor rates at the various shipyards by a factor of ten; and leading to new methods to project future rates.

Actuarial Contractor LYNCHVAL SYSTEMS   Mar 2017 - Apr 2018

Worked at the Pension Benefits Guarantee Corporation with a team to deliver an annual data scraping, collecting, and reasonability checking process to update a database used to project future Pension Insurance performance.

Actuarial Analyst WILLIS TOWERS WATSON   Jul 2013 - Jun 2016

Performed analysis and engineered plan-specific spreadsheets to provide clients with bulk benefit calculations, pension evaluations, and assistance in filing IRS Form 5500s.

Education & Certifications

GENERAL ASSEMBLY DATA SCIENCE IMMERSIVE BOOTCAMP   October 2017 - December 2017

A project-based training program that focuses on statistics, data analysis and visualization, and machine learning.

- Won a blogging competition by conducting research on the Effectiveness of Humanitarian Aid. Used a boosted tree-based model with feature importance plots and partial dependency plots for interpretation.

Education & Certifications, cont.

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.
- Scholarships: Presidential Scholarship, Angus B. Robinson Scholarship, Leadership in Mathematics Scholarship
- Leadership: President of Gamma Iota Sigma, Alternative Break Advisor, VP Finance for Alpha Chi Omega
- Internships: Actuarial Intern for companies Swiss Re, CNA, and Mercer

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

Relevant Volunteering

WOMEN WHO CODE, Cleveland, OH   July 2022 - Present
Serving as Director, I am recharging the Cleveland network to provide access and awareness of the largest organization dedicated to the success of women in technology careers.
- Organizes monthly meetings with programming which support members' goals.
- Community building and volunteer management