

NATALIE M. OLIVO

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A bold Machine Learning Engineer with experience in bringing grand visions to life at rapidly growing Tech startups. I seek opportunities where I can translate complex technical asks into smaller, flexible solutions that can begin generating value in early iterations. I find breaking down organizational silos to form novel ideas and efficient approaches to be invigorating.

Professional Experience

Machine Learning Engineer II INTEROS Jan 2022 - Present
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.

- Built a model and maintains a training/retraining pipeline to support a service which extracts information from tables contained in PDFs found on company websites. [AWS Textract, Ground Truth, BERT, XGBoost]
- Acts as product owner to our relationship web-scraper, in charge of evangelizing, scoping the evolution, and improving upon efficiency and quality of relationships produced. [Pyspark, Databricks, Spacy NER]

Machine Learning Engineer I Oct 2019 - Jan 2022

- Engineered an application and each of its features using micro-services architecture framework which 1) Scrapes and extracts relationships from company websites, 2) Sends relationship proposals to Human in the Loop validation, and 3) Publishes verified relationships to a knowledge graph. Maintains features which support flexibility for multiple use cases across different teams in the company. [FastAPI, SQL, Prefect, Kafka]
- Developed a unit testing framework for functionality heavily reliant on external services. [Docker, Pytest]
- 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.
- Conducted ad-hoc data analysis per internal and client requests on areas of interest such as executive compensation for tax-exempt organizations. [Python, SQL, Tableau, AWS Athena, Redshift]

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.

- Curriculum included three labs per week, five projects, a personal website, a personal blog, and a final Capstone Project. Projects were conducted as business cases where communication skills were strongly emphasized.

- 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.

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.

Relevant Volunteering

WOMEN WHO CODE

Cleveland

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

Washington, DC

June 2017 - 2019

- As a Volunteer speaker I presented my work on Bayesian Network Analysis.
- Active participant in meetings and up-skilling workshops.