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.
- Automated the process of pdf-based relationship extraction with a multi-faceted pipeline which supports the re-training of the models, and archival features. [AWS Textract, Ground Truth, HuggingFace]
- Lead developer of a relationship-scraper responsible for harvesting 650k B2B relationships from the internet and populating them to our knowledge graph. Responsible for evangelizing new use cases, scoping the evolution, and improving upon efficiency and quality of relationships. [Pyspark, NER]

Machine Learning Engineer I   Oct 2019 - Jan 2022
- Automated the time-intensive, manual process of web-based relationship discovery with an API that 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 business segments. [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
- Presented work on Bayesian Network Analysis as a volunteer speaker.
- Active participant in meetings and up-skilling workshops.