EFTHIMIOS VLAHOS

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PROFESSIONAL EXPERIENCE

CORNERSTONE BUILDING BRANDS
East Meadow, NY [Remote]

Data Scientist — 05/2024 – Present

I was responsible for discovering the most popular product configurations across diverse product lines, leveraging advanced data engineering and ML solutions.

- Built **data pipelines** in **Databricks** using **Python**, **SQL**, and **Bash** scripts, pulling data from **Azure Data Lake** to consolidate and transform configuration metrics at scale.
- Applied **clustering algorithms** (e.g., K-Means) and **PCA** to segment and reduce high-dimensional features, revealing top-selling configurations that guided targeted production plans.
- Incorporated **SQL**-based dashboards in **Power BI** for executives and plant managers to drill down into sales and operational metrics, improving decision-making on manufacturing workflows.
- Streamlined data transformations and feature engineering, **reducing pipeline runtimes by 35%** and eliminating manual data wrangling steps.
- <u>**Resulted in a more precise alignment between production output and customer demand, reducing excess inventory costs by 15%.**</u>

MICROSOFT
East Meadow, NY [Remote]

Data Analyst — 06/2021 – 08/2021

I analyzed enterprise-level data and assisted in building an LLM-based chatbot solution, focusing on data-driven insights and reducing hallucination rates in model outputs.

- Utilized **Python** and **SQL** to gather, cleanse, and explore large client knowledge bases, identifying patterns and potential gaps in domain coverage.
- Performed in-depth **descriptive analytics** to detect anomalies in user query logs, collaborating with ML engineers to implement advanced hallucination detection and reduce misinformation by 30%.
- Conducted iterative **A/B testing** and hyperparameter tuning to optimize model performance, enabling a 25% increase in end-user satisfaction with the chatbot's answers.
- <u>**Resulted in higher user satisfaction with the chatbot and a 20% decrease in manual escalations, saving clients substantial support costs.**</u>

KPMG
Manhattan, NY [Remote]

Data Analyst Intern — 06/2020 – 10/2020

I focused on market forecasting for financial clients, leveraging cloud-based analytics and machine learning.

- Streamlined the training process with **Vertex AI**, automating data ingestion and cutting model deployment time by 50%.
- Conducted exploratory data analysis to uncover key drivers of client investments, providing actionable insights that enhanced strategic positioning in volatile markets.
- <u>**Resulted in data-backed recommendations that solidified KPMG's role as a trusted advisor in financial market analytics.**</u>

SKILLS

Programming:	Python, SQL, Bash, C, C++, Java, R
Data Science:	TensorFlow, PyTorch, PySpark, Scikit-learn, NumPy, Pandas, LangChain, MongoDB, AWS, GCP, Azure
Web Technologies:	Node.js, npm, React, Express, Flask, RESTful APIs, HTML, CSS, HTTPS
Developer Tools:	GitHub, Docker, Kubernetes, Linux, macOS, Terraform, Jenkins, GitHub Actions, Grafana

EDUCATION

SUNY Stony Brook University: Stonybrook, NY — **GPA:** 3.65 / 4.00

Master of Science: Applied Mathematics & Statistics — **Graduation:** May 2023

Coursework: Data Structures & Algorithms, Data Science, Machine Learning, Numerical Analysis I, II, and III, Big Data Analytics

CUNY Hunter College: Manhattan, NY — **GPA:** 3.8 / 4.00

Bachelor of Science: Mathematics & Physics (Minor: Computer Science) — **Graduated:** June 2020

Coursework: Linear Algebra, Vector Calculus, Ordinary Differential Equations, Partial Differential Equations, Probability & Statistics, Quantum Mechanics, Classical Mechanics, Complex Analysis