

PHILIP STRUMINE

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Economist dba Lead Data Scientist

Experienced data professional with a proven track record of building and scaling production-ready machine learning solutions while driving business strategy through advanced causal inference techniques. Experienced in leading cross-functional teams, mentoring data scientists, and securing executive buy-in for AI-driven initiatives. Adept at designing and deploying models that not only enhance user engagement but also provide actionable insights to optimize decision-making, measure ROI, and drive business growth.

EDUCATION

PhD ABD, Applied Economics – Northeastern University – Boston, MA

MS, Mathematical Finance – Boston University Graduate School of Management – Boston, MA

BS, Applied Mathematics – University of Florida – Gainesville, FL

SELECT PROFESSIONAL EXPERIENCE

Senior Data Scientist – Aetna, a CVS Health Company

2022-Present

Led the development, deployment, and performance tracking of maternity-related campaign and risk models.

- Implemented scalable SQL models deployed by Python DAG leveraging frameworks such as scikit-learn and GCP to enhance campaign success measurement and product impact
- Developed, deployed and owned a novel, clinical model that outperformed all previous clinical research-backed results by improving specificity by 12%
- Assessed value of two previously unmeasurable campaigns and then achieved full buy-in from many verticals to initiate refreshes for both campaigns leading to 35% ROI
- Consolidated numerous complex campaign analyses into a simple-to-understand executive summary leading to YoY cost reduction of 8%

Chair, Senator, and Assistant Professor, Mathematics – Mount Ida College

2012-2018

Prior to industry, I chaired a mathematics department, where I designed and taught applied statistics and machine learning topics, mentoring students in real-world analytics applications while managing a department of 10 faculty

- Revamped business mathematics curriculum to include foundational machine learning and data science principles, fostering applied learning in a scalable, online format

Co-Founder and VP Analytics – eLayaway

2006-2009

Established advanced analytics function for online payments startup company, including building eLayaway's analytical engine. Analyzed future revenue and cost streams. Leveraged insights to develop finance optimization strategies.

- Modeled startup's customer base with custom pipeline that delivered advanced analytics, which increased ROI of annual marketing initiatives by over 27%

PROFESSIONAL PROFILE

Remain Agile – Maintain flexibility to explore ideas, adopt emerging solutions, and overcome perceived limitations

Propel Innovation – Leverage analysis to help organizations move beyond what is present, obvious, and known

Forge Relationships – Cultivate collaborative team environments to achieve goals and expedite solution discovery

SELECT TECHNICAL SKILLS

Git; Python (Spark, TensorFlow, Dash, Pandas, SciKit Learn, Selenium, Plotly, Seaborn); R (Tidyverse, Shiny, Stargazer); BigQueryML; Jenkins; Airflow; VertexAI Pipelines; BASH; SQL; Stata; C; C++; Excel; MATLAB; SPSS; Mathematica; Tableau