Pavlo Mysak

Boston, MA | P: 845-706-3548 | pavlomysak@gmail.com | LinkedIn | pavlomysak.github.io

EDUCATION

Boston University   Boston, MA
M.S. Data Science   Aug 2025 – May 2026
    GPA: 3.8/4.0
    Coursework: Bayesian Statistics, Mathematical Statistics, Machine Learning, Deep Learning

State University of New York at New Paltz   New Paltz, NY
B.S. Business Analytics; Minor in Economics   Aug 2022 - May 2025
    Summa Cum Laude, GPA: 3.9/4.0
    Exceptional Student Leader Award
    Manhattan Business Analytics Competition (2nd/21)

WORK EXPERIENCE

La Tourangelle (CPG)   Remote
eCommerce Analyst (Data Science)   Nov 2023 – Present
eCommerce Analyst Intern   Apr 2023 – Aug 2023
- Developed an ML pipeline (PyTorch) using multitask learning to forecast intermittent demand, jointly training classification and regression objectives; reduced PO errors and saved $300k annually.
- Reduced stockouts by 15% by engineering a recursive discrete-event simulation web-app that integrates LightGBM forecasts with EOQ optimization to automate shipment planning.
- Spearheaded ETL pipeline development using Python to schedule data flow from Amazon API to internal reports, automating predictive workflows and saving 6+ hours weekly.
- Modeled cross-retailer price sensitivity using log-log panel regression to optimize promotion depth-duration tradeoffs.
- Deployed four interactive dashboards to track sales and marketing KPIs.

SUNY New Paltz   New Paltz, NY
Teaching Assistant, Research Assistant   Jan 2024 – Jun 2025
- Provided support and led lab sessions for 60+ students across three undergraduate courses, covering data visualization (Tableau), database management (SQL), statistical analysis (R), and advanced business analytics (ML).
- Conducted research investigating the causal impact of AI popularity on equity markets, responsible for programming, modeling, and analysis.

ACTIVITIES & PROJECTS

Estimating Latent Volatility Regimes via Bayesian Markov Switching   Dec 2025
- Estimated a hierarchical Bayesian state-space model via MCMC to infer latent market regimes and transition dynamics.

Business Analytics Competition @ Manhattan College   NYC, NY
Top 3 Overall out of 21 Teams   May 2024
- Conducted a causal inference analysis using fixed effect regression discontinuity design (RDD) model to quantify the impact of COVID-19 on nursing home financial performance from 2015-2022.

Project Lead | SUNY New Paltz: Business Analytics Club Consulting Initiative   Jan 2025
- Founded and led a consulting project with local hospitality business.
- Managed 10-person analytics team, overseeing client engagement and dashboard development.

SKILLS

Languages: Python, SQL, R, Stan
Libraries/Tools: PyTorch, PyMC, Scikit-Learn, Streamlit, Pandas, Numpy, Tableau
Techniques: Bayesian Statistics, Machine Learning, Deep Learning, Causal Inference (RDD, DiD)