Matthew Maslow

Greater Boston | 617-433-0501 | mjmaslow13@gmail.com
LinkedIn: matthew-maslow | GitHub Portfolio: mjmasl01.github.io/Personal_Wesbite/

EDUCATION

Boston University — Boston, MA
Master of Science in Data Science — May 2025
Courses: Bayesian Statistics, AI Ethics, Machine Learning, Deep Learning, Medical Science, Financial Analytics

St. Lawrence University — Canton, NY
Bachelor of Science in Data Science — May 2024
Courses: Mathematical & Applied Statistics, Advanced Statistical Models, Database Systems, Data Science

SKILLS

Programming: Python, R (RStudio), Excel, SQL, HTML
Tools: Jupyter Notebooks, DataGrip, VS Code, Git, MySQL, Microsoft Azure, APIs, JSON, Power BI, Tableau
Certificates: CITI, HIPAA

PROJECTS

Boston University

Predicting Depression Risk from NHANES Data — April 2025-May 2025

- Developed logistic regression and XGBoost machine learning models on NHANES survey and clinical data to predict PHQ-9 depression indicators, addressing class imbalance with SMOTE, and interpreting results using SHAP

Bitcoin Sentiment Analysis Using Machine Learning and Azure-Based ETL — February 2025-May 2025

- Designed and implemented Azure-based pipeline to process and train machine learning model for anomaly detection on historical crypto price and sentiment data, supporting future integration with real-time analytics and Power BI dashboards for marketing insights

Save The Children: Catch-Up Clubs (BU Spark!) — October 2024-December 2024

- Collaborated on predictive models (math, literacy) with team of 5 to analyze student retention in Uganda, Nigeria, and the Philippines; Identify key risk factors, implemented interactive dashboard to support data-driven interventions and presented to client

RELEVANT EXPERIENCE

Tufts Medical Center, Department of Anesthesiology & Perioperative Medicine | Boston, MA
Data Research Analyst — July 2025-Present

- Conduct data analysis and biostatistics on hemodynamic data using R and Excel, including data cleaning, manipulation, and predictive modeling to identify outcome predictors for patient modeling with pulmonary hypertension
- Support two cardiovascular research projects: 1) Mortality prediction in patients with pulmonary hypertension. 2) Echocardiographic assessment of right ventricular function and size

Brown University Health (formerly Lifespan), BERDI | Providence, RI
Data Science Intern — June 2024-December 2024

- Analyzed ICU sepsis patient data from MIMIC-IV implementing uniform distribution to prevent data bias
- Supported Dr. Maya Cohen and Ray Tanzer, refined data and presented updates, and recommended next steps

Research Assistant — July 2023-August 2023

- Conducted statistical analysis in RStudio, performed hypothesis testing on systolic pressure variations, and contributed to "Hemodynamic Monitoring in The Cardiac Surgical Patient" (Journal of Cardiothoracic and Vascular Anesthesia)