Matthew Maslow

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

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)