Matthew Maslow
617-433-0501 | mjmaslow@bu.edu

Dear Hiring Manager,

I am writing to express my interest in data science, analytics, or data engineering opportunities, where I can apply my strong foundation in statistics and hands-on experience delivering data-driven solutions. As a master's student in Data Science at Boston University, I am passionate about transforming raw data into actionable insights and building scalable systems that enhance decision-making.

As a Data Engineer Intern at Brown University Health, I worked with ICU sepsis patient data from the MIMIC-IV database, using R and SQL to process and clean complex datasets. I collaborated with clinical researchers to conduct advanced statistical analyses and contributed to improving research workflows and patient outcome assessments.

Previously, I partnered with Patricia Apruzzese, Senior Biostatistician at Harvard Clinical Research Institute, to perform data wrangling and modeling on clinical datasets. This collaboration led to a co-authored publication in *The Journal of Cardiothoracic and Vascular Anesthesia*, reflecting my ability to contribute meaningfully to rigorous research settings.

As part of a graduate project in collaboration with Save the Children, I worked with a team to build predictive models using Python and machine learning techniques such as logistic regression and decision trees to analyze student retention across several countries. I also contributed to developing interactive dashboards that helped visualize key findings and support data-informed decision-making for program teams. Separately, I led a team project for my Big Data and Microsoft Azure course, where we built an end-to-end pipeline using Azure services to process Bitcoin-related news and tweet data. I developed and trained a machine learning model for sentiment analysis. I also managed the pipeline's integration with structured SQL outputs for downstream use in Power BI.

I bring experience with Python, SQL, R, and Azure-based ETL pipelines and a strong data modeling and visualization background. I thrive in collaborative environments and take pride in solving real-world problems through thoughtful, data-driven approaches.

Thank you for considering my application. I welcome the opportunity to contribute my skills and enthusiasm to your team.

Best regards,
Matthew Maslow