

Alexis Musaelyan-Blackmon

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EDUCATION

Northeastern University

Sep 2021 - Apr 2025

B.S. in Data Science and Biology, GPA: 3.90/4.0

Honors: Dean's List, Joseph A. Coolidge Award

Select Coursework: Programming with Data, Fundamentals of Data Science, Fundamentals of Computer Science, Discrete Structures, Database Design, Differential Equations, Machine Learning, Clinical Neuroscience

Languages: Python, SQL, Scala, SAS, R, Java, JavaScript

Virtual Institutes for Cyber and Electromagnetic Spectrum Research and Employ

Jan 2023 - Apr 2024

Scholarship program with a curriculum focused on advanced cybersecurity, electromagnetic spectrum, cryptography, data science, DoD research, and strategic foreign languages.

EXPERIENCE

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Nov 2022 – Present

Software Development Project Analyst Intern

- Leverage appropriate analytic and visualization tools (**SQL, Tableau, JavaScript, ZenDesk, HubSpot, Spark**) to develop complex data cleaning, integration, and analysis projects.
- Integrate data science methods to support user insights gathering while developing predictive models to enhance user-centered design.

Northeastern University, Khoury College of Computer Sciences

Aug 2022 - Present

Computational Modeling Research Assistant

- Develop computational models of diseases in **Python** at the level of molecular networks and physiological function, using dynamical systems modeling, control theoretic analyses, and machine learning. Applying these models to predict disease outcomes in patients and guide therapies.

Simpson Healthcare

Jul 2022 – Sep 2022

Data Science Intern

- Received, cleaned, and queried data from our clients using **SQL** and created visualizations with **Tableau** to help data scientists to build marketing mix models.
- Analyzed the results of these models, identifying key customer characteristics that maximize customer acquisition and recommending changes to a marketing strategy that resulted in a lift in return on marketing investment by 6 basis points.

Little Black Notes

Sep 2019 - Aug 2022

Marketing Data Analyst

- Analyze media data with the integration of **BigQuery** and **Tableau** to build data-driven attribution models to support marketing decisions and budget allocation.
- Plan, develop, and implement the company's overall social media strategy in order to support and create an online presence and overall digital marketing efforts.

SELECT PROJECTS

- **Feature Optimization in HubSpot**
 - Discovered how the process of customer feature discovery was related to overall feature utilization during free software trials of HubSpot's products.
 - Compared a range of machine learning approaches to identify prototypical discovery processes, allowing for deeper understanding of the gaps in feature utility that inhibit user monetization and retention.
- **Stroke Prediction using Machine Learning**
 - Used a dataset from Kaggle to predict whether a patient is likely to get a stroke based on the input parameters like gender, age, various diseases, and smoking status in **Python**.
 - Applied PCA for dimension reduction of the data and created a linear regression for classification by imposing a decision rule.

AWARDS & INTERESTS

- **Presidential Scholar Award** – Exemplifying academic excellence, leadership qualities, and community service.
- **VICEROY DECREE Scholar** - Recognized as a cyber leader in the development of foundational expertise in critical cyber operational skills.
- **First Place, Marian Garcia International Piano Competition**
- Fluent in Russian, Armenian, and Spanish.