

JOEL E. BRANDINGER

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EDUCATION

Tufts University
B.S. Data Science

Medford, MA

September 2020 – May 2024

- Minor in Economics
- Member of NCAA D3 Varsity Ice Hockey Team
- **Relevant Courses:** Data Structures, Algorithms, Machine Learning, Statistical Pattern Recognition, Big Data, Cyber Security, Web Programming, Machine Structure & Assembly, Probability, Statistics, Linear Algebra, Calculus 1, 2, & 3

PROFESSIONAL EXPERIENCE

Principal Financial Group

Remote

Data Engineer Intern

May 2023 – August 2023

- Contributed to development and maintenance of a large-scale data warehouse for Enterprise Data & Analytics department
- Built and maintained ETL applications using Informatica Power Center, to facilitate data population and curation, extensively utilizing SQL
- Involved in transitioning RIS Data Warehouse to Enterprise Data Foundation, adopting newer technologies such as Python, AWS, Snowflake, and GitHub

Prentiss Hockey Performance

Stamford, CT

Data Analytics Intern

May 2022 – August 2022

- Conducted in-depth data analysis to identify key performance indicators for hockey athletes, enabling evidence based decision-making and customized training programs
- Collaborated with coaching staff to streamline data collection and implement performance assessments
- Assisted in maintenance of data management system to ensure accurate and accessible data for ongoing analysis and reporting

PROJECTS & OUTSIDE EXPERIENCE

Spotify Song Clustering

Medford, MA

Tufts University

April 2023

- Applied unsupervised machine learning techniques to analyze a dataset of Spotify songs, resulting in identification of distinct musical clusters based on various audio features
- Explored upgrading the K-Means algorithm to a Gaussian Mixture Model to leverage probabilistic modeling to capture complex data distributions and improve accuracy and flexibility of song clustering

Image Classification

Medford, MA

Tufts University

November 2022

- Utilized feature engineering techniques to optimize a logistic regression model for binary image classification
- Generated model with lowest error rate on unseen testing set in class of 120 students

Python Data Scientist

Remote

DataCamp Certification

August 2022

- Earned certification demonstrating proficiency in data manipulation, visualization, statistical analysis, and machine learning using Python, enhancing technical skills and knowledge in data science
- Completed rigorous coursework and practical exercises through 25 courses, 6 projects, and 3 skill assessments

SKILLS & INTERESTS

Skills: Python, C/C++, Java, JavaScript, SQL, Spark, HTML/CSS, AWS, Informatica

Interests: Ice Hockey, Soccer, Mountain Biking, Golf, Hiking

Languages: Swedish (native), English (fluent), Spanish (intermediate)

ADDITIONAL EXPERIENCE

Two Sigma Tutors

Boston, MA

Tutor

August 2022 – May 2023

Shipt

Grand Rapids, MI

Shopper

April 2019 – August 2021

AWARDS & ACHIEVEMENTS

All-Sportsmanship Team

New England

New England Small College Athletic Conference

Winter '22 - '23

Henrik Zetterberg Scholarship Award

Michigan

Michigan High School Hockey

March 2018

