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 – Present

- Contributing to development and maintenance of a large-scale data warehouse for Enterprise Data & Analytics department
- Building and maintaining ETL applications using Informatica Power Center, to facilitate data population and curation, while extensively utilizing SQL for seamless integration
- Actively 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

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

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

ADDITIONAL EXPERIENCE

Two Sigma TutorsBoston, 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