JOEL E. BRANDINGER

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EDUCATION

Tufts University **Medford, MA**
B.S. Data Science *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 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*