JOEL E. BRANDINGER

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EDUCATION

Tufts University **Medford, MA**
B.S. Data Science *September 2020 – May 2024*

- Minors: Economics & Mathematics
- GPA: 3.65 / 4.0
- **Relevant Courses:** Data Structures, Algorithms, Machine Learning, Statistical Pattern Recognition, Big Data, Cyber Security, Web Programming, Computer Vision, Machine Structure, Probability, Statistics, Linear Algebra, Calculus 1-3

PROFESSIONAL EXPERIENCE

Principal Financial Group **Des Moines, IA**
Software Engineer Intern *May 2023 – August 2023*

- Contributed to development and maintenance of a large-scale data warehouse for Enterprise Data & Analytics department
- Built ETL applications using Informatica Power Center to facilitate data population and curation
- Utilized AWS EC2 instances to extract data from Salesforce using Python and SQL

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

Scholar Puck Track **Medford, MA**
Personal Project *September 2023*

- Full-stack web app to effectively track and visualize NCAA hockey commitments from various junior hockey leagues across North America
- Implemented using EliteProspects API, DynamoDB database, and AWS CI/ CD pipeline. Backend in python, frontend in JavaScript and React

Spotify Song Recommendations **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 Model **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

SKILLS

Programming Languages: Python, C, C++, Java, JavaScript, SQL

Tools & Frameworks: PyTorch, TensorFlow, Spark, React, HTML, CSS, AWS, GCP, Git, Informatica

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

ADDITIONAL EXPERIENCE

Tufts University Varsity Ice Hockey Team **Medford, MA**
Member *September 2020 – Present*

Two Sigma Tutors **Greater Boston, MA**
Tutor *August 2022 – Present*

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*