MEL VIATOR

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EDUCATION

Boston University   *Boston, MA*
Master of Science in Applied Data Analytics, GPA: 3.96/4.00   *Expected December 2022*

Bentley University   *Waltham, MA*
Bachelor of Science, Manga Cum Laude, GPA: 3.71/4.00   *May 2019*
Major: Mathematical Sciences | Minor: Computer Information Systems

PROFESSIONAL EXPERIENCE

U.S. Department of Veterans Affairs   *Boston, MA*
Data Scientist Masters Student   *May 2022 - Present*
- Selected for the Big Data Scientist Training Enhancement Program, which provides opportunities to learn and use data science techniques to advance healthcare research and patient care within the Veteran Affairs (VA)
- Performed statistical analyses for the Video Blood Pressure Visits project – an initiative to improve the quality of care to Veterans with hypertension – observing a notable decrease in the cohort's blood pressure vitals
- Collected data from the VA's corporate data warehouse using SQL, performed analyses in Python/R, and presented the patient outcomes in a manner that was informative and digestible to healthcare professionals

Aon Corporation – Rewards Solutions   *Waltham, MA*
Aon's Rewards Solutions division supports clients in life science and technology industries that seek insights on compensation practices. The company utilizes data and analytics to diagnose problems and provide actionable solutions

Senior Associate Compensation Consultant   *June 2019 – July 2021*
- Led the research of market data to assess pain points within a client's organization; translated findings into visual representations and presented comprehensive strategic solutions to senior client leaders
- Collected, manipulated, and interpreted data from compensation surveys and public financial disclosures to provide robust and dynamic industry benchmarks

Diversity, Equity & Inclusion Committee
Co-Committee Chair and Training & Education Workstream Lead
- Founding member of the Waltham Office's Diversity, Equity & Inclusion (DEI) committee, taking intentional actions to ensure DEI is embedded through recruiting, community involvement, and education
- Led the research and organization of monthly training and educational workshops for 40+ participants per event, engaging office personnel to embrace a culture of diversity, equity, and inclusion

TECHNICAL SKILLS & RELEVANT COURSEWORK

Programming Languages: Python, R, Java, SQL

Python Tools: Pandas, NumPy, Scikit-learn, Pytorch, TensorFlow, Keras, Jupyter Notebook

Theory: machine learning, classification and regression modeling, deep learning, data mining, database design and management, algorithm analysis, statistics, probability, and calculus

Graduate Courses: Advanced Machine Learning and Neural Networks, Data Science with Python, Foundations of Machine Learning, Web Mining and Graph Analytics, Analysis of Algorithms, Data Structures and Algorithms

Capstone Projects
- *DNA Sequence Classification with CNN*: Employed NLP and Deep Learning techniques using Keras to accurately classify DNA sequences by experimenting with various preprocessing techniques, models, and hyperparameters
- *Understanding the Shortest Path Problem*: Analyzed Dijkstra's algorithm alongside Rapidly-Exploring Random Trees to implement the combination of these algorithms to find an optimal solution to the shortest path problem
- *Workplace Gender Discrimination Analysis*: Constructed statistical hypotheses, multiple regression models and an analysis of variance in R to conduct inferences about gender pay and promotion inequalities
- *ML Classification of Breast Cancer Tumors*: Developed supervised learning classification models to predict with ~96% accuracy whether a tumor is malignant or benign based on a set of features collected from an imaging test

EXTRACURRICULARS & HONORS

Bentley DII Varsity Swimming Team – Participated in four years of varsity training and athletic competition
Academic All-American Athlete – Recognized based on concurrent high achievement in academics (GPA greater than a 3.6) and athletic competition (alternate to NCAA DII swimming championships)