Shariar Vaez-Ghaemi

14005 N Commons Way, Potomac, MD, 20854
sv226@duke.edu (240) 899-4903 shariarvg

Education

Duke University **Durham, NC**
Bachelor's Degree, Statistical Science GPA: 4.00, Expected Grad: December 2024
Coursework: Statistical Modeling, Machine Learning and Legislative Behavior, Linear Algebra and Applications, Algorithms and Data Structures (HS), Analysis of Algorithms (HS), Discrete Math (HS), Multivariable Calculus (HS)
Activities: Duke Investment Club (Analyst), Scholars of Finance (Duke Leadership Team), Duke Applied Machine Learning Group (Quant Trading Team), Duke Undergraduate Machine Learning (Exec Board)

Experience

Apollo Endeavors **Durham, NC**
Data Scientist Jun 2021–Sep 2021
- Designed 2 Power BI data visualization dashboards for a medium-sized manufacturing group to expedite the process of monitoring inventory supplies.
- Developed a statistical language model that writes original poetry using Python and deployed it to the web using Django/Heroku. github.com/shariarvg/wandmind

UCLA Luskin School of Public Affairs **Potomac, MD**
Machine Learning Research Intern Jun 2021–Sep 2021
- Leveraged supervised topic models to build KERMIT – a Python package that provides quantitative insights on text data to social scientists – under the mentorship of Professor Zachary Steinert-Threlkeld.
- Led an ML study into the sentiments of Syrian civilians during the Aleppo War using Twitter data

Trailblazer Debate Academy **Rockville, MD**
President Jun 2020–Aug 2021
- Planned, coordinated, and supervised 200+ hours of debate instruction
- Managed a team of 5 coaches who taught students in 4 states
- Collected and distributed 21,000 dollars in revenue

University of Pennsylvania, Wharton School **Potomac, MD**
Social Statistics Research Intern Mar 2020–Sep 2020
- Utilized Python, R, and Matlab to analyze the effects of linguistic features on the success of movie scripts and research articles; implemented an original regression model that predicts movie ratings and article citations
- Worked under the mentorship of New York Times Bestselling Author and Penn professor Jonah Berger.
- Presented work to Washington Academy of Sciences and students in the Blair Magnet Foundation

Projects

Predicting Rookie Quarterback Completion Percentages Jun 2021
- Used Bayesian Maximum Likelihood Estimation to predict a player's completion percentage given their college completion percentage and their first few performances.

Optimizing Cellular Networks with Stochastic Calculus Jun 2021
- Used Stochastic Methods, Regression, and Multivariate Vector Calculus to create algorithms for the optimal placement of cellular networks within a region.
- Earned 1,000 dollar prize in Mathworks Mathematical Modeling Challenge

Skills

Languages: Python, Java, R, SQL, HTML/CSS/JavaScript, MATLAB, LaTeX, Stata, Django
Tools: Tensorflow, Keras, Torch, Sci-kit Learn, Gensim, Pandas, NumPy, Tidyverse
Environments: Git/Terminal, SSH, Jupyter, RStudio, VSCode, WordPress, Power BI, Azure

Awards

Perfect SAT Score (1600/1600) Dec 2020
International Public Policy Forum – World Runner-Up May 2021
National Speech and Debate Tournament, Octofinalist Jun 2020
First Chair Clarinetist in Maryland All-State Orchestra Feb 2020