Carson Slater

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Summary

Motivated undergraduate student seeking to gain professional work experience with quantitative analytical methods. Strongly interested in studying machine learning, Bayesian methods or causal inference. Seeking to become a machine learning engineer post-graduation.

Experience

Mathematics Teaching Assistant August 2022 - present

Wheaton College Department of Mathematics and Computer Science

- Served as Applied Machine Learning TA (MATH 465) from December 2022 to present, and the Probability Theory TA (MATH 363) from August 2022 to December 2022.
- Graded weekly homework assignments and hosted weekly help sessions for students.

Participant June 2022 - July 2022

Duke/North Carolina State University Summer Institute for Biostatistics

- Participated in several classroom discussions to engage standard biostatistical methods and areas of study at Duke Clinical Research Institute and North Carolina State University.
- Culminated in a Hackathon studying and modeling myocardial infarction and associated complications.

Projects

Forecasting Demand With Generalized Additive Models Link to Github

- Built time-series forecasting models to predict quantity-demanded for fast-moving consumer goods in Indonesia.
- Presented poster at University of Illinois – Chicago's 2022 Undergraduate Mathematics Symposium and Wheaton College's 2022 Homecoming STEM Poster Session.

Understanding and Modeling Predictors to Earned Run Average in Modern Major League Baseball

- Conducted variable selection using predictors from the Lahman baseball database to model Earned Run Average using regression analysis. Used the same predictors to build a single-layer neural network and a radial support vector regression model in R/RStudio.

Education

2019 - 2023 **B.S. Applied Mathematics with Statistics** (GPA: 3.44/4.0)
B.A. Economics
Wheaton College, Wheaton, IL
Edman Presidential Scholarship

Skills

Relevant Coursework: Numerical Analysis, Linear Algebra for Data Analysis, Mathematical Statistics, Machine Learning, Probability Theory, Real Analysis, Intensive Introduction to Computer Science (*Harvard*), Econometrics, Economics of Labor and Poverty.

Software: R/RStudio, Python, SAS, Stata, C, SQL, LaTeX, JavaScript, CSS, HTML.