Grant Hohol

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Education

University of Wisconsin-Madison **Expected May 2027**
B.S. in Computer Sciences and Statistics, 2x Dean's List Member 3.88/4.0 GPA

Projects

March Madness Predictions and Probabilities Classification Model **Python**

- Created a Random Forest machine learning model to predict the round teams would lose in the NCAA Basketball Tournament using **scikit-learn**
- Model based bracket placed in the 99th percentile of ESPN's Bracket Challenge 2024
- Tuned hyper-parameters for the models using Grid Search to assure maximum performance
- Scraped data from websites using **Beautiful Soup**
- Scrubbed and merged multiple data sets using **pandas**
- Created data visuals for exploratory data analysis and model evaluation using **seaborn**

Data Analysis of 2020 NFL QB Draft Class **R**

- A statistical analysis of the hotly debated top three quarterbacks from the 2020 NFL Draft Class
- Used a number of machine learning models, including **XGBoost**, to create comparative performance metrics *against expectation* rather than using typical QB metrics that don't adjust for situation
- Scrubbed data from nflfastR, a large scale dataset, using **dplyr**
- Created intuitive and visually appealing graphs and images using **ggPlot2**

Relevant Experience

Operations Data Analyst Intern - Central Garden & Pet **May 2024 - August 2024**

- Enhanced factory operating efficiency by 11% by developing the automation for an employee skill-based wage programs application and training process
- Built an efficient data storage infrastructure for employee data
- Conducted a detailed analysis of the company's employee skill matrix to identify skill gaps and weaknesses. Visualized the findings with **Power BI** and presented the results and insights to company executives
- Worked extensively with Microsoft Office Suite, gaining proficiency with those tools

Leadership Team | Safety Scholar - Wisconsin AI Safety Initiative **September 2023 - Present**

- Self-studied ML engineering through ARENA's exclusive accelerator bootcamp (Python)
- Created the infrastructure for our organizations feedback and improvement loop; used feedback data to drive change and adaptability in our organization
- Created and maintained an alumni network to reach out to and hold virtual events with alumni
- Participated in a weekly research paper reading group centered around the cutting edge topics in **ML** and **AI research**. Read, analyzed, and discussed papers with peers and professors.

Technical Skills

Languages

- Python, R, Java, SQL

Developer Tools and Libraries

- Pandas, scikit-learn, Power BI, Git, Matplotlib and Seaborn, ggPlot2, Microsoft Office Suite