ROHAN WEYERBROCK ARORA

(609)-423-5600 • rohanarora@gwu.edu • linkedin.com/in/rohanwarora • rohanwarora.github.io/portfolio

EDUCATION

THE GEORGE WASHINGTON UNIVERSITY, Honors Program — Washington, DC
BS in Data Science and Economics, History — May 2025
GPA:3.95, Dean's List
Relevant Coursework: Data Mining, Bayesian Statistics, Data Warehousing, Econometrics, Financial Economics, Multi-Variable Calculus, Data Visualization, Linear Algebra, Enlightenment Philosophy, Business Statistics

TECHNICAL SKILLS

Languages: R (Advanced), Python (Intermediate), SQL (Advanced), Looker (Advanced), Stata (Intermediate), Power BI (Advanced), dbt (Advanced), Excel (Intermediate), MongoDB (basic), Tableau (Basic),
Libraries/Packages: NumPy, Pandas, Matplotlib, Seaborn, Plotly, Statsmodel, Scikit-learn, dplyr, ggplot2, tidyr, shiny, RJAGS, MCMC

EXPERIENCE

CARGURUS — Boston, MA
Data Analytics Engineering Intern — June 2024 – August 2024

- Built and maintained 20+ data models using dbt, Snowflake, and Looker. Optimized SQL queries to handle datasets exceeding 1 million rows, ensuring high performance and reliability in data retrieval and analysis.
- Managed server and warehouse access for over 500 users in Snowflake, utilizing Metaplane to monitor and improve big data resource allocation, reducing costs by 10% through efficient usage.
- Overhauled 10+ explores in Looker for self-service data models, implementing best practices for data modeling and documentation, and ensuring accuracy with Spectacles testing.
- Produced scalable big data pipelines with Airflow, ensuring efficient data flow and processing to support reliable, data-driven decision-making.

FEDERAL RESERVE BOARD — Washington, DC
Data Science Year-Round Intern — May 2023 – May 2024

- Engineered a job recommendation algorithm by scraping 150+ internal job descriptions, applying NLP techniques to extract relevant features, and developing a machine learning model using TF-IDF and Cosine Similarity, resulting in personalized recommendations.
- Developed a SARIMA time series model for a $500,000+ annual travel budget in Python. Using Monte Carlo simulations to enhance performance leading to a 16% increase in prediction accuracy improving decision-making.
- Created and regularly updated Tableau and Power BI dashboards to visualize $10+ million in division expenses to provide managers with clear and comprehensive insights, enabling them to make data-driven decisions streamlining resource allocation and identifying $10,000+ in cost-saving opportunities.

HONORS RESEARCH ASSISTANTSHIP — Washington, DC
Research Assistant for Prof. Adam Dean — October 2022 – May 2023

- Constructed an extensive panel dataset covering 3,143 counties over a period of 22 years, applying quasi-experimental and regression analysis techniques in R and STATA, to explore the influence of unionization on voting access measures, such as ballot box availability in the U.S.
- Analyzed a comprehensive dataset of over 100 countries spanning 53 years, employing data analytics tools, R & Python, to examine the impact of U.S. influence on global economic liberalization efforts, elucidating key trends and factors to contribute valuable insights to the discourse on policymaking.
- Conducted an in-depth review and synthesis of relevant literature, leveraging research skills to validate analysis.

AMERICORPS — St. Louis, MO
Mission STL: Beyond School Success Coach — August 2020 – July 2021

- Mentored 13 sixth graders at St. Louis Language Immersion School. Met students two-to-five days per week to help them meet literacy and math class goals and to support their social development.
- Liaised with caretakers and teachers to create personalized learning materials and strategies, contributing to a 100% graduation rate, with one of my students receiving the Beyond School student of the year award.
- Recruited and trained 40 volunteers from local colleges to allow tutoring of more students needing academic support.