GABRIELLA GULIANTS

g.gabriella@wustl.edu | (513) 680-7172 | linkedin.com/in/gabriellaguliants | github.com/gguliants

EDUCATION

Washington University in St. Louis   **St. Louis, MO**
Bachelor of Science in Data Science, 2nd Major in Financial Engineering   **Dec 2024**
- Cumulative GPA: 3.85/4.00; Engineering GPA: 4.00/4.00
- Honors & Activities: Dean's List (all semesters), Washington University Student Investment Fund (WUSIF)
- Relevant Coursework: Data Manipulation & Management, Intro to AI, Data Analysis for Financial Engineering, Statistics for Data Science I & II, Data Structures & Algorithms, Quantitative Risk Management, Capital Markets
- Skills: Python (NumPy, Pandas, seaborn, Matplotlib, scikit-learn, BeautifulSoup, plotly), R, Java, LaTeX, Bloomberg Terminal, Large Language Models, Machine Learning, Prompt Engineering, GenAI, Neural Networks

WORK EXPERIENCE

Washington University in St. Louis   **St. Louis, MO**
Assistant Instructor   **Aug 2024 – Present**
- Lead weekly office hours in Financial Mathematics and assign grades to homework assignments and exams
- Coordinate grading activities and schedules for all assistant instructors to ensure fair grading practices

Natixis CIB Americas   **New York, NY**
Global Markets Summer Analyst   **June 2024 – Aug 2024**
- Rotated between sales and trading teams to help execute interest rate and FX trades by monitoring market trends via Bloomberg Terminal and modeling over 30 trades with internal trading software and Excel
- Shadowed equity derivatives, commodities, and treasury trading teams to learn about different asset classes
- Leveraged GenAI and Python to visualize factors affected by presidential elections
- Developed a nowcast using a dynamic factor model to accurately predict 2024 Q2 GDP within 3 basis points

Washington University in St. Louis   **St. Louis, MO**
Teaching Assistant   **Aug 2023 – May 2024**
- Led weekly office hours in Data Analytics in Python by guiding students through programming assignments and managing instruction materials on Canvas

Archer Daniels Midland (ADM)   **Erlanger, KY**
Data Scientist Intern, Pricing Analytics   **May 2023 – Aug 2023**
- Engineered and iteratively improved a K-Means clustering model to group customers based on provided data
- Delivered pricing recommendations using customer data for over 400 distinct products by programming numerous decision tree and random forest algorithms
- Implemented categorical variable encoding, feature engineering, and hyperparameter tuning in Python and SQL to achieve between 87.7% – 93.0% accuracy on each model and conveyed results to senior management

PROJECTS

Cannabis & Crime in Chicago   **May 2023**
- Leveraged web scraping, SQL, and dbt to retrieve Chicago cannabis dispensary data and crime data from a governmental API and manipulated the data with in-context learning
- Concluded a lack of association between dispensary location and crime prevalence by comparing crime data before and after cannabis legalization using 20+ interactive Dash visualizations

Cleansea   **Aug 2022**
- Generated a marine debris image classification algorithm in Python by deploying a convolutional neural network model with over 500,000 parameters and trained with 150 epochs to classify distinct types of pollutants
- Earned an accuracy of ~95.7% and won 2nd place in the 2022 MIT SureStart Deep Learning Create-a-thon