Lauren Hartmann

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Data and Research analyst professional with a background in abstract and applied mathematics. Experienced with cleaning, reporting, forecasting, and visualizing data to support statistical analysis of large data sets. Proficient with statistical and regression models using Python, SQL, and Excel.

Technical Skills

Languages: Python (Pandas, NumPy, Scikit-Learn, Statsmodels), SQL
Data Visualization: Matplotlib, Seaborn, Plotly, Tableau, Excel
Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forests

Projects

Spotify Hit Predictor **2022**

- Python Tools: Pandas, NumPy, Seaborn, Statsmodels, Scikit-Learn
- Built a 'Hit' prediction model that achieved 84% accuracy using supervised machine learning algorithms based on Spotify APIs
- Modeled the training data to several classification/tree-based algorithms and chose best performing model

Gender Diversity at the MOMA **2022**

- Performed explanatory data analysis in Excel and Tableau on over 130,000 records of historical data to establish trends in the museum's acquisitions over time
- Constructed a What-If Analysis to predict a 61% improvement to the collection's diversity based on EDA insights

Professional Experience

Data Analytics Fellow **July 2022 – Present**
Springboard | Remote

- Analyze large data sets using Excel, Python, and SQL to extract actionable insights
- Produce insightful presentations and visualizations for executive, technical, and non-technical audiences

Private Mathematics Tutor **Sep. 2020 - Present**
Self-Employed | Remote

- Teach, guide, and assist students through a variety of courses from PreAlgebra to Calculus II and Statistics
- Develop supplemental material and collaborate with instructors to ensure student success
- Adapt complex information to unique learning style of each student

Mathematics Research Assistant **May 2018 – August 2018**
NSF REU: California State University | Fresno, CA

- Generated and analyzed data sets using Python and Magma to establish a new class of vertices and a method to identify these sets in complex graphs and their affine representations (Abstract Algebra, Graph Theory, Projective Geometry)
- Collaborated with peers and supervisor on presentations and visual representations in Python and LATEX

Education

Springboard Data Analytics **2022**
6-month intensive course in data analytics, Python, Excel, SQL, Tableau (Projects: github: la-hartmann)

B.A. in Mathematics **2019**
Westfield State University | Summa Cum Laude (Major GPA: 3.94/4.0)