Samuel Schappel

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GitHub: https://github.com/sammyschapps87

SUMMARY

Multidisciplinary, driven Data Analyst seeking position to utilize expertise in economics, computing, data science, statistics, and applied mathematics. Consistently recognized as a high-performer with proven technical skills and innovative computational experience ready to thrive in a fast-paced, competitive business environment.

TECHNICAL SKILLS

Tools: SQL, Python, R, VBA, Excel, JavaScript, Tableau, Power-BI, HTML, CSS, Geo-mapping, Git Bash, MongoDB
Databases: Flask, PySpark, Pandas, Matplotlib, NumPy, Seaborn, API Interactions, JupyterLab, Beautiful Soup
Machine Learning: Scikit-learn, Algorithmic Trading, Random Forests, k-Nearest Neighbors (kNN), Support Vector Machines (SVM), Linear Regression, XGBoost, Logistic Regression

EXPERIENCE

Computing in Economics **Rutgers University, NJ**
Teaching Assistant, 2021

- Managed the grading, testing and work completion for 20+ python undergraduate students
- Provided tutoring, coaching and supplemental instruction; supported successful completion of class requirements
- Worked directly with professor on a weekly basis to conceptualize homework problems and innovative solutions dealing with data transformation and visualization as well as function creation using financial and statistical methods/formulas.

NYC Real Estate Computational Modeling | https://github.com/sammyschapps87/independent_study

- Independent study that manipulates NYC real estate data to create a time series model by borough for changes in housing prices over 18 years visualizing and predicting the effects of Covid-19 on the housing market.
- Scraped data from NYC department of finance rolling sales file, cleaned and transformed data, created visualizations, ran machine learning regression algorithms, and found the Staten Island real estate market was affected by Covid the least.
- Python, Pandas, Matplotlib, Seaborn, Numpy, Scikit-learn, BeautifulSoup

Diabetes Predictor Patient Website | https://github.com/vasavdave/Team-Project-04

- Launched website that illuminates if one is diabetic through input of 10+ core related health factors
- Developed exemplary back-end work on machine learning algorithms to find the best predictor of diabetes.
- Python, Pandas, Matplotlib, Numpy, Scikit-learn, Random Forests, Decision Tree, Logistic Regression, Support Vector Machines (SVM), XGBClassifier

Pharmaceutical Analysis | https://github.com/sammyschapps87/Pharmaceutical_analysis

- Used Pharmaceutical data to analyze the effect of the drug Capomulin on tumor growth using regression analysis.
- Linear regression findings give a decay equation for the drug Capomulin of y = 0.95(Cap) + 21.55 with an R squared of 0.84 showing high correlation between drug use and tumor decay.
- Python, Pandas, Matplotlib, Scipy, Linear Regression

EDUCATION

Rutgers University, NJ **May 2022**
Bachelors of Arts Economics, Minor Business Administration **GPA: 3.3**

- **Relevant Coursework:** Econometrics, Statistics, Finance, Financial Economics, Economics of Inequality, Calculus, Money and Banking, Independent Study/Extended Independent Study in Economics, Seminar in Economics
- **Certificate in Data Science:** Intensive 24-week program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.

Morristown Beard School, NJ **June 2017**

- Four-year varsity hockey, NJ State Champion freshman year, senior year assistant captain, member of FBLA (Future Business Leaders of America) Club and Philosophy Club.