

# Samuel Volpone

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## SUMMARY

Results-driven Data Scientist with a strong foundation in data analysis, machine learning, and business intelligence. Skilled in leveraging tools such as Python, R, Tableau, and Power BI to extract insights and deliver actionable solutions. Proven ability to develop advanced analytical models and drive data-driven decision-making to exceed performance benchmarks. Seeking to contribute expertise in analytics and problem-solving to an innovative organization.

## TECHNICAL EXPERIENCE

### **Airbnb Classification Project**

- Conducted comprehensive data cleaning and feature engineering to improve model accuracy and robustness
- Visualized key trends in short-term rental data using ggplot2, enabling effective communication of findings
- Developed and optimized statistical models using classification methods like logistic regression, random forest, and XGBoost; the best model predicted with a 0.82 area under the curve
- Provided actionable insights and recommendations based on data-driven analyses for an investor specific to the New Orleans short-term rental market

### **Optimal Portfolio Project**

- Constructed a portfolio of 20 stocks, solved a non-linear optimization for the weights of each stock based on the Sharpe Ratio
- Outperformed the S&P500 by 8% over the year that the portfolio was tracked

### **Database for NBA Statistics**

- Worked with a diverse team using the SCRUM framework to complete database project
- Designed and developed a relational database using MySQL Workbench and Amazon RDS
- Developed and maintained data dictionaries, improving cross-functional team understanding of data structures and definitions

## SKILLS

- **Programming & Analytics Tools:** Python (NumPy, Pandas, Seaborn, TensorFlow), R, SAS, Jupyter Notebook
- **Data Visualization & BI:** Tableau, Power BI, Looker Studio
- **Database Management:** MySQL, PostgreSQL, NoSQL, Amazon RDS, MongoDB
- **Other Tools & Technologies:** GitHub, Microsoft Office Suite, HTML

## EDUCATION

### **University of New Hampshire – Peter T. Paul College of Business and Economics**

<i>Master of Science (MS)   Business Analytics, GPA 3.75</i>	September 2024
<i>Bachelor of Science (BS)   Business Administration – Information Systems &amp; Business Analytics</i>	September 2023
<i>Bachelor of Science (BS)   Business Administration – Finance</i>	September 2023

**Relevant Coursework:** Big Data and Artificial Intelligence, Unstructured Data, Optimization Methods II, Time Series Analysis, Optimization Methods I, Statistical Learning, Fundamentals of Statistics, Communication of Data, Probability and Simulation, Business Intelligence, Database Management, Corporate Project Experience, Financial Modeling, Programming for Business, Big Data in Finance, Predictive Analytics and Modeling, Management Information Systems

## WORK

### **New Constellation Capital – Durham, NH**

*Product Owner* January 2023 - May 2023

- Effectively translated client needs into actionable tasks, coordinated meetings, and maintained open lines of communication to ensure project objectives were met on time and within scope
- Delivered a customized dashboard with actionable insights and data visualizations, tailored to enhance the client's business processes and meet specific operational needs

### **Colangelo's Gutters - Newmarket, NH**

*Lead Technician* May 2021 - Present

- Led teams of up to 4 to complete complex projects ahead of schedule, while adapting to changing client requirements