

Matthew Paz

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EDUCATION

Baruch College, Zicklin School of Business New York, NY MS in Business Analytics GPA: 3.50	12/24
• Leadership: Data Science and Analytics Society, Editor	
Queens College Flushing, NY BA in Sociology GPA: 3.70	05/19
• Awards: Cum Laude	

PROJECTS

Text Classification – Detecting Review Authenticity | [Link](#)

Language: Python • Libraries: scikit-learn, pandas, numpy, NLTK, SMOTETomek, matplotlib

- Analyzed ~200K Amazon e-commerce reviews using stratified sampling to classify verified vs. unverified purchases.
- Engineered NLP features (POS tagging, NER, sentiment scores, text metrics) and handled severe class imbalance (96:4) with SMOTETomek (0.33 ratio).
- Evaluated multiple ML models; **Random Forest achieved 86% accuracy and 0.88 precision** on verified reviews.
- Delivered scalable framework enhancing review authenticity detection for improved consumer trust.

NYC Airbnb Dashboard – Interactive Visualization | [Link](#)

Language: Python • Libraries: Streamlit, Plotly, pandas, numpy, geopandas

- Designed an interactive dashboard visualizing Airbnb listings across NYC to uncover pricing, occupancy, and geographic trends.
- Performed extensive data cleaning and exploratory analysis to identify key drivers of listing performance.
- Enabled **data-driven pricing strategies and stakeholder insight delivery** through dynamic visual storytelling.

EXPERIENCE

Baruch College New York, NY Graduate Teaching Assistant	08/24 – 01/25
• Supported 112 undergraduate students in Database Management Systems and Big Data Technologies courses by providing personalized guidance and assistance.	
• Developed Excel-based grading tools using standardized rubrics to enhance grading accuracy and efficiency.	
• Authored a GitHub Pages deployment tutorial for data science portfolios, focusing on best practices for showcasing projects effectively.	
Tayside Group New York, NY Researcher, Executive Search	11/21 – 04/23
• Led multiple concurrent client projects, collaborating with Consultants and Researchers to deliver strategic, scalable solutions through rigorous market research and data-driven strategies.	
• Developed and executed project strategies, prioritizing candidate identification and calibration using internal networks and external resources, ensuring high-quality outcomes and timely delivery.	
• Created high-quality client deliverables, including candidate profiles, role specifications, search strategies, and progress reports, enhancing client decision-making.	
Valnet, Inc New York, NY Recruiting Coordinator	08/19 – 11/21
• Optimized HR onboarding processes with JazzHR analytics, reducing setup time by 20% and improving new hire efficiency.	
• Analyzed sourcing data to refine recruitment strategies, contributing to a 10% increase in candidate quality.	
• Generated custom reports on hiring metrics, supporting data-informed decision making for leadership.	

SKILLS

Programming Languages: Python (Intermediate), R (Intermediate), SQL (Intermediate)

Data Analysis Tools: Pandas (Intermediate), NumPy (Intermediate), SciPy (Basic), Matplotlib (Intermediate), Jupyter (Intermediate), Excel (Advanced)

Machine Learning: scikit-learn (Intermediate)

Data Visualization: Tableau (Intermediate), Power BI (Intermediate), ggplot2 (Intermediate), Seaborn (Intermediate)