Tony Marziale

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Detail-oriented professional transitioning to data analytics with 6+ years of operational experience and strong quantitative background. Developed advanced skills in Python, SQL, and Tableau through CareerFoundry's data analytics bootcamp. Proven ability to identify patterns, solve complex problems, and communicate insights effectively.

Technical Skills

Programming Languages: Python (pandas, NumPy, scikit-learn), SQL (PostgreSQL)
Tools & Platforms: Tableau, MS Office (Excel, PowerPoint, Word), Jupyter Notebook
Machine Learning: Random Forest, K-means Clustering, Predictive Modeling

Portfolio Projects

Wildfire Prediction Model

- Built a Random Forest Machine Learning model using public datasets to predict forest fires in California that achieved average precision of 88% and average recall of 91%
- **Technologies:** Python, scikit-learn, GIS, Tableau

Customer Segmentation Analysis

- Segmented Instacart customers using a k-means clustering Machine Learning model
- Designed targeted marketing strategies based on cluster characteristics
- Used 2017 Kaggle competition dataset with advanced feature engineering
- **Technologies:** Python, scikit-learn, Jupyter Notebook

Healthcare Demand Forecasting

- Forecasted county-level healthcare staffing needs using WHO data and other public datasets
- Developed weighted model incorporating population demographics and vaccination rates
- Delivered concrete deployment recommendations for travel nurse allocation
- **Technologies:** Excel, Tableau

Database Analysis & Business Intelligence

- Conducted comprehensive EDA on Sakila database with actionable business insights
- Built dynamic pricing model incorporating seasonality and customer loyalty metrics
- Created complete data dictionary and presented findings via PowerPoint
- **Technologies:** PostgreSQL, PowerPoint, DBVisualizer

Professional Experience

Motor Coach Operator | Lux Bus America, et al | 2019-2025

- Maintained 99%+ on-time performance through route optimization and real-time problem-solving
- Recorded thorough, accurate daily logs ensuring regulatory compliance with DOT standards, demonstrating attention to detail and structured process adherence
- Managed passenger communications and resolved service issues, developing stakeholder management skills
- Tracked and analyzed operational metrics including fuel consumption and passenger counts

Education

Pasadena City College | 2019-2021

- Completed two years of technical coursework with a near-perfect GPA of 3.93
- Demonstrated strong quantitative reasoning and analytical problem-solving abilities