Alyssa Bogaczyk

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Education
Southeastern University - Lakeland, FL

- MBA in Data Science (In Progress, Expected Dec 2025)
- B.S. in Communication; B.A. in Multidisciplinary Studies (Apr 2022)
- Alpha Chi National College Honor Society

Projects
Housing Prices Analysis - Regression Modeling (GitHub Portfolio)

- Conducted exploratory data analysis on Kaggle housing dataset to identify price drivers (area, bathrooms, parking, AC).
- Built and tuned regression models (Linear, Polynomial, Ridge) using scikit-learn.
- Optimized Ridge Regression (best alpha = 0.01) achieving RMSE: 0.2868, MAE: 0.2342, R^2 = 0.5741.
- Validated results through residual analysis, confirming model fit and data assumptions.

Falcon 9 Landing Prediction - IBM Data Science Capstone (GitHub Portfolio)

- Collected launch data via SpaceX API and web scraping; cleaned datasets for analysis.
- Performed EDA with SQL and Python to uncover factors influencing booster landings.
- Developed and evaluated classification models (Logistic Regression, SVM, Decision Trees, KNN).
- Built interactive visualizations and dashboards using Plotly Dash and Folium to communicate insights.

Experience
Network Enrollment Counselor - Southeastern University, Lakeland, FL | Oct 2023 - Present

- Generate and analyze enrollment and retention reports to support leadership decisions across 80+ partner sites.
- Monitor student data for accuracy, troubleshoot discrepancies, and ensure compliance with university standards.
- Assist with the transition to a new CRM, including data migration, and user support.
- Collaborate with site directors to interpret reports and apply insights to enrollment growth strategies.

Advancement Coordinator - Kenosha Christian Life School, Kenosha, WI | Aug 2022 - Sept 2023

- Maintained constituent data and generated reports to support fundraising strategy.
- Partnered with leadership to evaluate campaign performance and community engagement.
- Strengthened data accuracy and accessibility across advancement systems.

Technical Skills
- Programming & Analysis: Python (pandas, NumPy, scikit-learn, matplotlib, seaborn), SQL,
- Jupyter Notebooks
- Visualization: Power BI, Tableau, Plotly, Folium, Excel
- Machine Learning: Regression, Classification, Hyperparameter Tuning, Model Evaluation
- Other Tools: Git/GitHub, Google Workspace, Salesforce, Jenzabar