Marcin Wójtowicz

Junior Data Analyst

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Portfolio: https://marcindevacc.github.io/MarcinW.github.io

Summary

Junior Data Analyst with hands-on experience in Python, SQL, Excel, Power BI and Tableau.

Specialized in data cleaning, ETL processes, exploratory data analysis (EDA), and KPI reporting.

Delivered end-to-end data projects including web scraping (45,000+ records) and machine learning model development.

Built automated workflows reducing manual data processing time by 90%.

Experienced in working with real-world business datasets and data validation.

Work experience

Data & Process Automation Intern

InConnect | Lublin, Lubelskie   10.2025 - 12.2025

- Performed data cleaning, validation and ETL-style data preparation using Excel and SQL to ensure data accuracy for business operations.
- Managed SQL databases including optimization, cleanup, backups, and performance monitoring.
- Designed and implemented automated ETL and process automation workflows using n8n, webhooks, APIs, and Google Cloud Platform.
- Automated generation of 2,800+ product descriptions reducing manual processing time.
- Supported website data integrity through error diagnostics, database backups, and optimization.
- Developed and processed structured data formats (JSON), including output parsers to validate data consistency in automated workflows.

Project experience

Independent Data Projects   06.2024 - Present

- Delivered multiple end-to-end data analysis projects using Python, SQL, Excel, Power BI, and Tableau on real-world datasets.
- Performed data cleaning, validation, feature engineering, and exploratory data analysis (EDA) on datasets.
- Conducted statistical analysis and visualization in Python to identify performance patterns, correlations, and behavioral trends across demographic groups.
- Built interactive dashboards in Power BI, Tableau, and Excel, analyzing sales, profit, customer behavior, and service quality with dynamic filters and KPIs.
- Applied RFM analysis and customer segmentation techniques to support customer value assessment and retention-oriented insights.
- Executed advanced SQL data cleaning using staging tables, CTEs, and window functions for deduplication and data standardization.
- Delivered KPI-focused reporting to support business-oriented insights across retail, transportation, and consumer behavior datasets.

Real Estate Price Modeling Project   09.2025 - Present

- Developed an end-to-end real estate price prediction system focused on price per square meter.
- Collected housing market data from public listing platforms using Python and Selenium.
- Performed multi-stage data cleaning and validation during scraping, in Excel Power Query, and in Python prior to modeling.
- Built preprocessing and feature engineering pipelines using pandas, NumPy, ColumnTransformer, OneHotEncoder, and OrdinalEncoder.
- Trained and evaluated regression models (RandomForest, DecisionTree, HistGradientBoosting) using R2, RMSE, MAE, MAPE, and cross-validation.
- Deployed the trained model using a CLI-based prediction module with joblib serialization.
- Created a fully functional pipeline from data acquisition to price prediction, designed for forecasting current market prices based on housing data from the last 6 months.

Skills

Programming: Python, JavaScript

Data analysis and Processing: pandas, NumPy, Exploratory Data Analysis (EDA), feature engineering, KPI metrics

Machine Learning: scikit-learn, model training, model evaluation, cross-validation

Data Visualization and BI: Power BI (DAX, Power Query), Tableau, matplotlib, seaborn, interactive dashboards

Automation and ETL: n8n (webhooks, API integrations), Selenium, ETL processes, JSON, CSV, XML

Databases: SQL (PostgreSQL, MySQL, MSSQL, query optimization), MongoDB, Firebase

Spreadsheets: Excel (advanced formulas, data cleaning & validation, Pivot Tables)

Cloud and Infrastructure: Google Cloud Platform (GCP), Docker, Docker Compose

Development Tools: Git, GitHub, Node.js, VS Code, Jupyter Notebook

Soft skills: Attention to detail, Teamwork and independent work, Adaptability, Proactivity, Rapid skill acquisition

Education

University College of Entrepreneurship and Administration in Lublin   10.2022 - Present

Bachelor of Engineering in Computer Science

Languages

Polish - C2

English - B2