Data Analyst Portfolio

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This portfolio highlights three data analysis projects demonstrating skills in Excel, data cleaning, statistical analysis, and dashboard creation. Projects draw from real-world scenarios in education, business, and logistics, showcasing versatility and the ability to turn raw data into actionable insights.

# Technical Skills

* Data Analysis: Excel, SQL (basic), Python (pandas)
* Data Visualization: Excel PivotTables, Charts, Power BI/Tableau (basic)
* Other: Data Cleaning, Dashboard Development, Business Insights

# Project 1: GMetrix Microsoft Excel Pre-Test Analysis

Tools: Excel, PivotTables, Conditional Formatting

Analyzed GMetrix Microsoft Excel pre-test data for 29 students across five skill areas: Formulas, Data Analysis, Charts, Formatting, and Workbook Management. Cleaned data, removed duplicates, and calculated averages per section and grade.

Findings revealed that 'Formulas' and 'Workbook Management' were the weakest sections (70.3%), with only 6.7% of students meeting the 80% readiness benchmark. Developed an interactive Excel dashboard with KPIs and visualizations to highlight weaknesses and guide targeted training.

# Project 2: School Store Sales Dashboard

Tools: Excel, Power BI (optional)

Compiled two months of point-of-sale data (date, product, category, quantity, price) from a student-run school store. Cleaned and transformed the dataset to calculate revenue and category performance.

Analysis revealed top-selling items and peak sales times. Built an Excel dashboard with category revenue breakdowns, KPI summaries, and trend charts to support inventory planning and decision-making.

# Project 3: East Coast Freight Route Profitability Analysis

Tools: Excel, Charts, KPI Dashboards

Analyzed freight route data (miles, fuel cost, revenue) for East Coast lanes: Atlanta–Miami, Atlanta–PA, and Atlanta–NJ. Created calculated fields for profit, cost per mile, revenue per mile, and profit margin.

Findings showed Atlanta–Miami was the least profitable route due to high distance and fuel costs, while PA/NJ routes were the most profitable. Developed Excel dashboards with bar charts and KPIs to visualize performance and provide recommendations for optimizing route assignments.