

15 PROJECTS

EXCEL

SQL

TABLEAU

POWER BI

PYTHON



EXCEL

Project Name	Skill	Level	Description
Sales Analysis Dashboard	Data cleaning, PivotTables, Charts	1	Analyze sales data across regions and products to identify trends and areas for improvement
Inventory Optimization	VLOOKUP, Conditional Formatting, Forecasting	2	Optimize inventory levels by forecasting demand and analyzing stock turnover
Financial Modeling & Valuation	Data analysis, NPV, IRR, Scenario analysis	3	Evaluate a company's financial performance and value by building a comprehensive financial model



TABLEAU & POWER BI

Project Name	Skill	Level	Description
Regional Sales Performance	Data visualization, Basic calculations	1	Create an interactive dashboard to track and compare regional sales performance
Customer Segmentation	Clustering, Advanced calculations	2	Segment customers based on their behavior and preferences to improve marketing strategies
Time Series Forecasting	Trend analysis, Predictive modeling	3	Forecast future sales, revenue, or other key metrics using historical time series data



DATA CLEANING

Project Name	Skill	Level	Description
Clean messy e-commerce data	Handle blank, null, duplicates, spelling	1	Develop the skills you need to clean raw data and transform it into accurate insights.
Prepare data for ML algorithms	Clustering, Calculations, ETL	2	Focus on data collection, data quality check, data exploration, data merging.
Automate data cleaning pipeline	ETL, SQL Server Agent	3	Automate data preparation and cleaning with a repeatable process.



STATISTICS

Project Name	Skill	Level	Description
A/B testing analysis	Execute and analyze A/B tests	1	Learn how to create, execute, and analyze A/B tests.
Hypothesis testing	T-Tests, ANOVA, and Non-Parametric Tests	2	Learn which test to use in which scenarios. Learn how to interpret the p-value, R-square, ANOVA, residuals, and standard deviations
Advanced statistical modeling	Logistic Regression, Clustering, Decision Trees	3	Formulate and execute a project. Interpret the results. Provide a recommendation based on the test outcome.



PYTHON

Project Name	Skill	Level	Description
Exploratory Data Analysis (EDA)	Data cleaning, Pandas, Matplotlib, Seaborn	1	Clean and analyze a dataset, then create visualizations to reveal patterns and trends
Sentiment Analysis	NLP, Text preprocessing, Machine learning	2	Analyze social media or customer reviews to gauge sentiment and identify areas for improvement
Anomaly Detection	Time series analysis, Unsupervised learning	3	Detect unusual patterns or outliers in data, such as fraud or system failures



YOU DID IT!

HOORAY!

Save this post, and tag me
when you share your
projects. I look forward to
seeing them!

