PRAJJWAL SILWAL

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PROFESSIONAL SUMMARY

Business Data Analyst specializing in turning raw data into operational clarity and financial accuracy. Skilled in SQL, Power BI, and Python to automate data workflows, enhance KPI visibility, and improve executive decision-making. Proven record of reducing reporting cycles, standardizing analytical processes, and improving forecasting reliability across finance and operations teams. Adept at translating analytical findings into actionable recommendations that drive measurable business improvements

Technical Skills

Analysis & Modeling: Financial/Operational Analysis, Variance Analysis, Forecasting, Regression Modeling, KPI Design
Visualization & BI: Power BI (DAX, Semantic Modeling/Star Schema), Tableau, Data Storytelling, Executive Dashboards.
SQL & Databases: Microsoft SQL Server, MySQL, Stored Procedures, ETL Development, Azure Data Lake.
Python & Scripting: Python (pandas, NumPy, scikit-learn), Data Automation, Jupyter Notebooks.
Tools: Excel (Advanced Formulas, Power Query), Git/GitHub.

PROFESSIONAL EXPERIENCE

Freelance Data Analyst | Remote | Aug 2023 – Present

- **Reduced reporting turnaround times by 15%** for multiple business units by building end-to-end Power BI reporting ecosystems integrated with SQL Server, Azure Data Lake, and Excel.
- **Saved 12+ hours weekly** and eliminated repetitive manual work by engineering automated SQL and Power Query pipelines, standardizing KPI logic for consistent stakeholder reporting.
- **Decreased quarterly budget deviations by 20%** by conducting portfolio-level variance and forecasting analyses that identified and plugged high-impact cost leakages.
- **Cut dashboard load times by 35%** by designing optimized star-schema semantic models and tuning DAX calculations, enabling smooth performance at scale

KEY PROJECTS

Sales Performance Optimization Dashboard | SQL, Jupyter Notebook, Python

- Improved sales planning accuracy by 40% by engineering a complete SQL-backed analytics pipeline that processed 10,000+ transactions and revealed high-impact regional KPI patterns.
- Enabled consistent and scalable reporting by creating automated data cleaning, aggregation, and KPI standardization workflows, forming the BI foundation for monthly performance reviews and leadership insights.

Financial Forecasting Model | Python, Excel, Power BI

- Enhanced financial predictability by 18% by developing a regression-based forecasting model that identified revenue/expense trends and strengthened proactive planning.
- Equipped leadership with scenario-ready insights by engineering cross-platform datasets (Python + Excel) and visualizing baseline vs. predictive forecasts in Power BI for budgeting decisions.

EDUCATION

University of Louisiana at Monroe | Monroe, LA | 2019 – 2023
Major: Mathematics (Coursework)
Relevant Coursework: Statistics, Linear Algebra, Data Structures, Intermediate Programming, Economics, Business Analytics.