

# VIVEK SINGH

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## Professional Summary

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Recent Computer Science graduate (Data Science specialization) with hands-on experience in Python-based ETL automation, SQL data modeling, and Power BI reporting. Completed projects in vendor performance, sales forecasting, and supply chain analytics, emphasizing data quality, efficiency, and actionable insights. Skilled in building pipelines, validating large datasets, and delivering dashboards aligned with business needs. **Recently completed the GeeksforGeeks Data Analyst Certification**, further strengthening expertise in data analysis and visualization.

## Technical Skills

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**Languages & Tools:** Python, SQL, Excel (Advanced), Power BI, R, Tableau, MySQL, Git

**ETL & Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn

**Core Skills:** Data Analysis & Visualization, ETL & Data Preparation, Data Modeling, Statistical Analysis, Dashboard Development, Business Intelligence Reporting

**Soft Skills:** Problem-Solving, Analytical Thinking, Stakeholder Communication, Attention to Detail, Continuous Learning

## Personal Projects

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### Vendor Performance Analysis – Retail Inventory & Sales | *SQL, Python, Power BI* | [\[Project Link\]](#)

- Developed and optimized a **complex SQL ETL pipeline** to build an aggregated summary table from multiple tables. Improved query performance using CTEs and data filtering, significantly reducing processing time for large datasets.
- Conducted **Exploratory Data Analysis and Hypothesis Testing in Python** solving research questions to evaluate vendor profitability, pricing strategy effectiveness, and inventory turnover.
- Identified over-dependence on top 10 vendors (65.7% of purchases) and uncovered \$2.71M in unsold inventory from low-performing vendors, recommending diversification and inventory optimization.
- Built interactive **Power BI dashboards** to visualize vendor performance, profit margins, bulk purchasing impact (72% cost reduction), and actionable insights for decision-makers.

### OLA Ride Prediction | *SQL, Power BI* | [\[Project Link\]](#)

- Designed and executed advanced SQL queries (joins, aggregations, window functions) to clean and analyze **103K+ ride records**.
- Performed data discovery and **demand trend analysis**, identifying cancellation causes and ride patterns for operational insights.
- Built an interactive Power BI dashboard with **DAX measures** to support driver allocation, **logistics optimization, and demand forecasting**.

### Amazon Sales Dashboard | *Excel, Power BI* | [\[Project Link\]](#)

- Consolidated and analyzed **1.15M+ sales records**, creating dashboards to evaluate courier partner reliability and **fulfillment efficiency**.
- Developed drill-through and interactive Power BI visualizations to support regional inventory planning and **supply chain decision-making**.
- Delivered insights on high-demand regions and courier bottlenecks, improving overall **business reporting speed and supply chain visibility**.

## Education

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**Teerthanker Mahaveer University** – Moradabad, U.P

*Bachelor of Technology (CSE), Specialization in Data Science (in collaboration with TCS iON)*

Aug 2021 – Jul 2025 | CGPA: 8.48 / 10 (80.6%)

## Certifications

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- [GeeksforGeeks – Data Analyst Certification](#)
- [Deloitte Australia - Data Analytics Job Simulation – Forage](#)
- [Data Modelling and Visualization – TCS iON](#)
- [Data Analytics and Reporting – TCS iON](#)
- [Statistics Using R & Python – TCS iON](#)