Bala Teja Vempati

+1 779-276-7123*·* [vempatibalateja98@gmail.com](mailto:vempatibalateja98@gmail.com) *·* [LinkedIn](https://www.linkedin.com/in/bala-teja-vempati-4b4244273/)

# PROFESSIONAL SUMMARY

# Detail-oriented Data Analyst with 3 years of experience in the financial and technology sectors, specializing in data quality, lineage, risk analysis, and reporting. Proven expertise in SQL, Python, data visualization (Tableau), and metadata management. Adept at implementing data governance frameworks, tracing data flow, and supporting compliance initiatives for financial institutions. Strong ability to turn complex data into actionable insights that support business decisions and regulatory requirements.

# TECHNICAL SKILLS

* **Languages**: SQL, Python, R
* **Tools**: Tableau, Power BI, Excel (Advanced), Alteryx
* **Databases**: Oracle, MySQL, Snowflake
* **Concepts**: Data Quality Frameworks, Risk Data Aggregation, Data Lineage, Regulatory Reporting, Data Governance
* **Methodologies**: Agile, Waterfall, ETL, Data Profiling

# WORK EXPERIENCE

**Student Manager – Northern Illinois University, DeKalb, IL**

*August 2023 – May 2025*

* Spearheaded analysis of operational and financial data, improving efficiency tracking by 23% through KPI dashboards.
* Designed data validation frameworks to assess the accuracy and completeness of student services data.
* Utilized SQL and Excel to clean, transform, and standardize datasets from multiple departments.
* Conducted root-cause analysis of data anomalies and proposed remediation strategies.
* Automated reporting workflows, reducing manual reporting time by 40%.
* Assisted in developing data lineage diagrams for financial aid processes and budget allocations.
* Created predictive models using Python to forecast student service usage and funding requirements.
* Collaborated with compliance officers to align data procedures with FERPA and internal governance policies.
* Designed Tableau dashboards to track engagement trends and resource utilization.
* Led data migration efforts for internal systems with zero data loss and ensured audit compliance.

**Associate Engineer – CGI, Bangalore, India**

*September 2021 – January 2023*

* Developed ETL pipelines and SQL queries for financial clients to monitor data accuracy and completeness.
* Partnered with risk management teams to identify data quality issues impacting regulatory reporting (e.g., BCBS 239).
* Implemented a metadata management solution to improve data traceability across systems.
* Conducted data profiling and lineage mapping using custom scripts and tools (e.g., Collibra, Informatica).
* Built dashboards for data quality scorecards using Power BI and Excel, improving visibility for compliance teams.
* Improved reconciliation processes between data sources, reducing variance by 18%.
* Participated in design of a data governance framework tailored to client-specific risk and compliance standards.
* Maintained documentation of lineage, transformation logic, and exception reports for auditing purposes.
* Worked in Agile teams to deliver data solutions on sprint-based cycles, with consistent on-time delivery.
* Supported migration of legacy financial datasets to Snowflake, ensuring schema alignment and lineage tracking.

# PROJECTS

* **Amazon Best Seller Software Analysis** performed data analytics on Amazon’s best-selling software dataset using Python. Conducted data cleaning, feature engineering, and exploratory analysis. Built and evaluated regression models to predict product ranking. Uncovered key insights on price, category, and review volume, enabling data-driven strategies for pricing, visibility, and performance optimization in e-commerce.
* **DATA VISUALIZATION ANALYSIS OF US SHARK TANK DATASET**, Analyzed Shark Tank US data using Tableau to identify funding trends across industries, gender, and geography. Created interactive dashboards and visualized patterns in deal success rates, equity offers, and investor behavior. Derived actionable insights to inform aspiring entrepreneurs about investor preferences and strategic pitching based on real-world venture capital data.
* **Fitness Tracking System**, Developed and managed a fitness tracking system database using SQL, enabling efficient storage and retrieval of user activity data, health metrics, and progress history. Ensured data accuracy, integrity, and scalability. Implemented queries and normalization techniques to support performance tracking, personalized insights, and reporting for enhanced user engagement and decision-making.

**EDUCATION**

**Master of Science in *Management Information Systems* Aug 2023-May2025**

*Northern Illinois University DeKalb, IL*

**Bachelor of Technology in Electronics and Communication Engineering Aug 2016 - July2020**

*KL University Vijayawada, India*