Bala Teja Vempati

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# PROFESSIONAL SUMMARY

Analytical and detail-oriented data professional with 3+ years of experience in data analytics, visualization, and engineering. Proven ability to build data pipelines, perform advanced SQL queries, and create actionable business insights through BI tools. Adept at working in agile environments, improving reporting capabilities, and developing data-driven solutions. Seeking to contribute technical expertise and data strategy skills in a Junior Data Analyst role with CGI.

# TECHNICAL SKILLS

* **Languages & Tools:** Python, R, SQL, Power BI, Tableau, Excel (Pivot Tables, Power Query),
* Jupyter, Git
* **Databases:** MS SQL Server, PostgreSQL, MySQL
* **Concepts:** Data Modeling, ETL, Data Mining, Predictive Modeling, Data Cleaning
* **Methodologies:** Agile/Scrum, SDLC, Statistical Analysis, KPI Tracking

# WORK EXPERIENCE

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

*August 2023 – May 2025*

* Led a team of 5+ student analysts, overseeing scheduling, training, and performance tracking
* using dashboards built in Excel and Power BI.
* Designed and implemented a centralized database system to track student inventory, reducing
* data redundancy by 40%.
* Conducted weekly data quality audits on student services datasets using SQL, improving
* reporting accuracy by 20%.
* Created interactive Tableau dashboards to track engagement metrics across university
* departments.
* Spearheaded the development of KPIs to monitor student participation, leading to a 15% increase
* in event attendance.
* Used Python to automate data processing scripts for academic resource tracking, reducing manual
* work by 30%.
* Collaborated with IT to migrate data from Excel-based systems into structured PostgreSQL
* database environments.
* Trained peers on data visualization best practices and storytelling using real-time examples.
* Implemented student feedback analysis using sentiment analysis libraries in Python (NLTK).
* Presented monthly analytical findings to university leadership, influencing data-driven policy

decisions.

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

*September 2021 – January 2023*

* Created, optimized, and maintained complex SQL queries and stored procedures, reducing report
* generation time by 50%.
* Developed Python scripts to extract and transform large datasets (1M+ rows) from various
* sources into staging databases.
* Built Power BI dashboards for client-facing reporting tools, used by 100+ stakeholders for real-
* time insights.
* Worked in agile sprints to support government analytics initiatives, contributing to 10+ backlog
* items per cycle.
* Automated KPI calculation logic for internal business units using Python, cutting down monthly
* reporting cycle time by 40%.
* Participated in ETL pipeline design and implemented performance monitoring checks using SQL
* and Python logging.
* Analyzed system logs and performed root-cause data analysis for over 20+ technical issues,
* improving reliability.
* Used Git and JIRA to manage version control and task allocation within cross-functional teams.
* Documented data dictionaries and metadata for newly developed data marts and warehouse
* structures.
* Trained new hires on standard operating procedures for SQL, dashboarding, and agile best practices.

# 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 – May 2025**

*Northern Illinois University Dekalb, IL*