GNANESWARI VADDEPALLI

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Professional Summary

Experienced Data Analyst with 3+ years of expertise in data analysis, reporting automation, and ETL pipeline development across banking and e-commerce domains. Skilled in SQL, Python, Excel, Power BI, and Tableau for delivering actionable insights and dashboard solutions. Holds a Master's in Data Science from the University of New Haven with a strong foundation in statistics and machine learning. Adept at transforming complex data into business value through clear storytelling and collaboration. Known for attention to detail, problem-solving, and delivering results under tight deadlines.

Technical Skills

- **Data Analysis & Reporting:** SQL, Python, R, Advanced Excel, Microsoft Word, PowerPoint, MongoDB

- **Data Visualization:** Power BI, Tableau, Google Analytics

- **ETL & Scripting:** Python, SQL, Unix/Linux Shell Scripting

- **Statistical & ML Techniques:** Regression, Time-Series Forecasting (ARIMA), Classification Models

- **Tools & Platforms:** Jupyter Notebook, AWS (S3, Redshift), REST APIs

- **Soft Skills:** Attention to Detail, Analytical Thinking, Written & Verbal Communication, Collaboration, Presentation Skills, Stakeholder Reporting

Professional Experience

Data Analyst | Infosys Ltd.   **Dec 2021 – Jul 2023 | Bengaluru, India**

Worked in the Finacle Core Banking Delivery and Support Team, ensuring the stability and efficiency of banking systems and analytics infrastructure.

- Extracted, transformed, and cleaned customer, transaction, and compliance data using SQL to improve data reliability and integrity for audit reporting.

- Automated backend monitoring, data validation, and report generation using Unix shell scripting and Python, reducing manual overhead by 40%.

- Used tools like PuTTY and SQL Developer to remotely query, debug, and troubleshoot application performance and database anomalies.

- Designed scalable ETL workflows to convert operational data into structured formats, ready for reporting and BI use.

- Managed role-based access and user authentication workflows, supporting secure and governed data usage.

- Participated in data mapping and cleanup efforts to align incoming data with enterprise system requirements.

- Worked collaboratively across teams to deliver multiple concurrent data conversion and transformation projects under tight deadlines.

- Developed dashboards and summarized key business KPIs using Excel and Power BI for internal compliance teams.

- ❿ Ensured 24/7 availability and performance support for mission-critical systems by participating in issue resolution and release cycles.

- ❿ Gained strong exposure to enterprise software design, end-user support, and system lifecycle management.

Key Achievements:

- ❿ Led cross-functional collaboration during several release cycles for mission-critical modules, minimizing delivery delays.

- ❿ Applied structured problem-solving and SQL analytics to identify root causes of repeated ETL failures.

- ❿ Demonstrated strong written/verbal communication through frequent stakeholder briefings and documentation.

Data Analyst Intern | Flipkart   **Mar 2020 – Nov 2021 | Remote, India**

Supported the Analytics and Marketing Intelligence team by building scalable analytics pipelines for high-volume data and enabling data-driven decision-making across business units.

- ❿ Built and managed ETL pipelines using Python and SQL to ingest and process e-commerce and customer interaction data.

- ❿ Automated reporting and data extraction from REST APIs and SQL-based systems, saving analyst teams hours weekly.

- ❿ Designed and implemented data transformation logic for dashboards that tracked product views, cart abandonment, and conversion rates.

- ❿ Collaborated with BI teams to build dashboards in Power BI and Tableau, ensuring effective storytelling and stakeholder usability.

- ❿ Conducted customer behavior trend analysis and created actionable visualizations to improve engagement strategies.

- ❿ Performed hands-on testing and validation of source-to-target data mappings during campaign and inventory audits.

- ❿ Participated in data quality reviews and tracked data issues for resolution in coordination with the development team.

- ❿ Utilized Excel extensively to organize source data, perform mapping/translation tasks, and validate large datasets.

Key Achievements:

- ❿ Improved data pipeline performance and reliability by identifying bottlenecks in ingestion logic.

- ❿ Recognized by the team for attention to detail, ability to work independently, and delivering high-quality reports on time.

Education

University of New Haven, Connecticut, USA
Master of Science in Data Science
Graduated: May 2025 | GPA: 3.64 / 4.00
Relevant Coursework:
Advanced Python Programming, Network and Internet Systems, Leadership & Project Management, Software Engineering, Systems Security

Projects

Spam Detection using Machine Learning

Developed a complete NLP-based spam detection system using Python and machine learning.

- Cleaned and preprocessed SMS text data using techniques like tokenization, stopword removal, and TF-IDF vectorization.

- Built and compared classification models (Naïve Bayes, SVM, Logistic Regression) to detect spam messages, achieving high accuracy and F1-score.

- Evaluated models using precision, recall, and cross-validation to ensure robustness.

- Demonstrated proficiency in Python, Scikit-learn, and Jupyter Notebook for end-to-end model development and performance reporting.

- Focused on transforming unstructured text into structured insights for business risk mitigation.

EDU Predict – Enrollment Forecasting Tool

Designed and deployed a forecasting pipeline to support academic enrollment planning.

- Collected, cleaned, and merged multi-year student enrollment datasets using Python and Pandas.

- Performed time-series analysis and forecasting using ARIMA models to predict future trends.

- Automated data preparation workflows and handled missing values to ensure high-quality inputs.

- Built interactive dashboards in Power BI to visualize enrollment projections and enable strategic decision-making.

- Applied strong ETL, data wrangling, and data visualization skills to deliver insights for institutional planning.