

Vani Pailla

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Summary

Data Analyst with 4+ years of experience in data engineering, business intelligence, and analytics. Proven ability to transform complex data into actionable insights using SQL, Python, Power BI, and Tableau. Successfully built ETL pipelines, developed executive dashboards, and delivered data-driven strategies that improved operational efficiency, increased revenue, and supported business decision-making. Experienced in working with cross-functional teams and communicating technical findings to non-technical stakeholders, with a focus on customer experience, product innovation, and process optimization.

Technical Skills

Languages & Tools: Python, SQL, R, Java, C++, PostgreSQL, MySQL, SQL Server, BigQuery, Advanced Excel

BI & Visualization: Power BI, Tableau, Google Data Studio, AWS Quicksight, Looker, Alteryx

Data Management: ETL, Data Profiling, Anomaly Detection, Data Mapping, Data Reporting, Data Storytelling

Big Data & Cloud: Hadoop, Spark, Kafka, AWS, Azure, Google Cloud

Collaboration Tools: Jira, Confluence, GitHub, Bitbucket

Experience

Data Analyst Intern | *USF Technology Transfer Center - Tampa, FL*

June 2024 – Present

- Designed and deployed an ETL pipeline using SQL and Python, reducing manual workload by 30% and improving data load speeds by 50% for over 2 million records per batch.
- Automated critical hospital performance tracking dashboards utilizing Python, enhancing reporting processes and informing strategic decisions that led to a 10% improvement in bed utilization rates over the two-year project.
- Innovated and automated critical performance tracking dashboards using Python, substantially improving reporting processes and **aiding a 17% increase in revenue** through strategic inventory management insights.
- Collaborated with a cross-functional team for A/B testing on a Power App featuring speech-to-text capabilities. **This initiative led to a 20% increase in customer experience and app usage.**

Analyst | *DBS Tech - Hyderabad, India*

Oct 2021 – June 2023

- Optimized SQL queries in Murex Datamart Views and Reporting Tables, improving performance by 40%.
- Tuned PostgreSQL queries for large datasets (10M+ rows), reducing execution time by 35%.
- Created end-to-end dashboards in Power BI and Tableau, increasing real-time data accessibility by 60%.
- Performed data profiling and anomaly detection using Teradata, improving data accuracy by 98%.
- Delivered executive-level reports in PowerPoint and Power BI, driving 15% improvement in leadership decision-making.

Data Analyst | *Accenture Solutions Pvt. Ltd - Hyderabad, India*

Jan 2021 – Oct 2021

- Enhanced Power BI report efficiency**, reducing load duration from 30 seconds to 5 seconds through automation and performance tuning.
- Developed python scripts for data transformation on marketing datasets, **streamlined business process by 29%**.
- Employed **Advanced Microsoft excel** (pivot tables, VLOOKUPS, VBA macros) to automate tasks across healthcare datasets, **automation enhanced by 40% and enhanced overall operational efficiency.**

Projects

HR Analysis Dashboard | *Power BI ([Link](#)) | May 2024*

- Built an HR dashboard in Power BI, enabling real-time insights and cutting reporting time by 50%.

Hospitality Revenue Analysis | *Power BI | January 2025*

- Generated Power BI reports on revenue performance that influenced a strategic shift, resulting in a 25% increase in bookings.

Consumer Goods Ad-Hoc Insights | *MySQL, Power BI | December 2024*

- Delivered business responses to 10+ stakeholder queries.

Business Insights 360 | *Power BI, Excel ([Link](#)) | February 2025*

Education

University of South Florida

Master of Science in Computer Science (GPA-3.7)

| Aug 2023 – May 2025

Tampa, Florida

Jawaharlal Nahru Technological University

Bachelor of Technology in Computer Science and Engineering (GPA – 3.8)

| Aug 2017 – May 2021

Hyderabad, India

Certifications

- [Google Analytics Certification](#)
- [Databases and SQL for Data Science with Python](#)

February 2025

June 2024