



PIYUSH CHOUDHARY

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EDUCATION

Master of Science, Data Science

Florida State University, USA,
August 2023 – May 2025

Bachelor of Technology (Honors) In Computer Technology with Specialization (AI&DS)

SAGE University, Indore, India,
August 2019 – May 2023

PROJECT

- Built automated ETL pipelines using SQL and Python to ingest, cleanse, and integrate 50K+ operational records across 5 fiscal years from multiple enterprise systems.
- Performed data quality analysis and deduplication using SQL and Python validation logic, identifying a large volume of duplicate records and improving dataset reliability for downstream reporting and analysis.

PATENT & RESEARCH

- Developed a smart walking stick with GPS and emergency alert system, funded by the government and improved user satisfaction by 40%.
- Conducted AI research to generate music using GAN models, producing 1,000+ tracks and reducing sound design time by 25%.

PROFESSIONAL PROFILE

Data Analyst / Data Science professional specializing in SQL, Python, and Power BI to deliver automated analytics, KPI reporting, and decision-ready dashboards. Domain experience across utilities, government, manufacturing, and nonprofits, with a strong focus on data quality, validation, and UAT. Expert at turning complex data into clear insights that drive operational and strategic

PROFESSIONAL EXPERIENCE

Data Analyst

Jacksonville Electric Authority (JEA), Jacksonville, FL

October 2025 – Present

- Build and automate Python ETL pipelines using Pandas, NumPy, and SQL.
- Schedule frameworks to ingest, validate, and transform 1000+ operational and customer records across MDMS, CC&B, PI System, and GIS platforms, enabling reliable daily and monthly operational reporting.
- Integrate utility operations data environments by architecting scalable pipelines connecting GIS tools (ArcGIS Pro, Survey123, Field Maps) with enterprise systems, converting raw geospatial and asset data into actionable datasets for planning, field operations, and system performance analysis.
- Develop and maintain SQL data models and reporting tables supporting recurring operational dashboards and ad-hoc analysis to improve data accessibility.
- Implement data quality controls, including validation checks, reconciliation between source systems, UAT support, and documentation to ensure accurate, auditable datasets used in operational decision-making.
- Perform statistical analysis and anomaly detection using Python and R on operational datasets to identify usage trends, data integrity issues, and system behavior patterns supporting utility performance monitoring.

Key Achievements

- Automated recurring operational reporting workflows using Python and SQL, significantly reducing manual reporting effort for utility operations teams.
- Built and supported production SQL datasets spanning 500K+ records used in monthly operational reporting, performance analytics, and leadership dashboards.

Data Analyst

Community Dreams Foundation, Sebring, FL

June 2025 – October 2025

- Acquired data from primary and secondary sources, including internal databases, spreadsheets, external partners, and program reports.
- Standardized KPI definitions and improved data quality across departments; built dashboards supporting executive reporting and outcomes tracking.
- Created reports, dashboards, and visualizations using tools such as Excel, Power BI, and Tableau.
- Monitored data quality, resolved inconsistencies, and maintained documentation such as data dictionaries and metadata.
- Developed analytical models and conducted impact assessments to measure program effectiveness and outcomes.

Key Achievements

- Developed SQL queries to extract, clean, and transform data from relational databases for monthly and ad hoc reporting.

Data Analyst

Prim Electrical Fixtures Pvt. Ltd., Indore, India

February 2023 – July 2023

- Implemented ERP data validation and reconciliation checks, reducing inventory data discrepancies by 40%.

Data & AI Engineering Intern

AICTE, India

January 2022 – April 2022

- Automated cloud-based analytics and report generation using AWS (S3, SageMaker, Lambda), saving 15+ hours per week and supporting deployment of predictive models across 3 production projects.

Data Analyst

SAGE University, Indore, India

January 2020

- Standardized ERP data pipelines supporting leadership decisions, reducing manual reporting effort by 40% through improved data governance.

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LANGUAGE PROFICIENCY

Category	Skills & Technologies
Data Analysis & Modeling	SQL (PostgreSQL, MySQL, T-SQL, Oracle), Python (Pandas, NumPy), R, ETL pipelines, data quality (validation, reconciliation), statistical analysis, forecasting
Business Intelligence & Reporting	Power BI, Tableau, Excel (advanced formulas, Pivot Tables), dashboard development, automated reporting, KPI design
Enterprise & Operational Systems	ERP systems (Oracle R12, Oracle EAM), field and operations data systems, data governance, access controls (CORE Identity Management)
Cloud, GIS & Engineering Tools	AWS (S3, SageMaker, Lambda), Azure, GIS (ArcGIS Pro, Survey123), Git
Analytics & Stakeholder Skills	Operations and performance analytics, cost and trend analysis, stakeholder communication, requirements gathering, and documentation.