

JYOTHI CHANDANA VOLETI

Hutto, TX | +1 (682)-336-1980 | chandanaivoleti@gmail.com | [LinkedIn](#)

PROFESSIONAL SUMMARY

Results-driven Data Analyst with 3+ years of experience transforming complex datasets into actionable business insights using Python, SQL, PySpark, and R. Skilled in designing ETL pipelines, cleaning and validating data, and integrating multi-source datasets on Azure, GCP, and AWS to enable accurate reporting and analytics. Proficient in creating interactive dashboards and visualizations with Power BI, Tableau, and AWS QuickSight, reducing manual reporting efforts and supporting data-driven decision-making. Experienced in performing anomaly detection, predictive modeling, and statistical analysis, ensuring high data quality and reliability. Adept at collaborating with cross-functional teams to deliver analytics solutions, KPI monitoring, and insights that enhance operational efficiency and business strategy.

TECHNICAL SKILLS

Programming & Scripting: Python, PySpark, SQL, R, Java, Shell Scripting.

Cloud Platforms: Azure (Databricks, Data Factory, Azure SQL, Blob Storage, Azure Synapse, Azure ML), GCP (Vertex AI, Dataflow, BigQuery, Cloud Storage, Pub/Sub), AWS (S3, Redshift, Lambda, Glue).

Big Data & Streaming Technologies: Apache Spark, Apache Kafka, Hadoop, Apache Airflow, Dataflow.

Databases & Data Warehousing: SQL Server, PostgreSQL, MySQL, MongoDB, NoSQL, Data Lake, Data Warehouse Architecture.

Data Engineering: ETL Pipeline Design, Batch & Streaming Data Processing, Data Validation, Data Transformation, Data Integration, Data Modeling.

Machine Learning & Analytics: Supervised & Unsupervised Learning, Time-Series Forecasting, Predictive Modeling, Statistical Analysis, Feature Engineering.

Data Visualization & BI Tools: Power BI, Tableau, AWS QuickSight, Matplotlib, Seaborn, Plotly.

DevOps & Orchestration: Apache Airflow, CI/CD Pipelines, Docker, Kubernetes, Version Control (Git).

Others: REST APIs, JSON, XML, Data Pipeline Optimization, Performance Tuning, Cloud Security Fundamentals.

PROFESSIONAL EXPERIENCE

Data Analyst

Apr 2025 - Present

Siri Data Analytics LLC | Texas

- Analyze large-scale datasets using Python, SQL, and PySpark, uncovering patterns and trends that improve operational efficiency by 25% and support business decision-making.
- Develop automated data extraction and transformation workflows with Azure Data Factory, Azure SQL, Blob Storage, and GCP Dataflow, ensuring timely delivery of accurate datasets for reporting.
- Design and maintain interactive dashboards in Power BI and Tableau, consolidating multi-source cloud data to provide actionable insights, reducing manual reporting effort by 35%.
- Create and optimize complex SQL queries on Azure SQL and BigQuery, improving data retrieval speed by 40% for analytics and business intelligence tasks.
- Conduct data validation, cleansing, and quality checks using Python, ensuring high data integrity and reducing reporting errors by 20%.
- Collaborate with business stakeholders to translate requirements into analytical models and visual reports, enabling data-driven decisions across teams.
- Generate predictive insights by integrating machine learning outputs from Vertex AI and Azure ML into reports, enhancing forecasting accuracy by 20%.
- Mentor junior analysts on data visualization best practices, SQL optimization, and cloud data integration, improving team efficiency and report accuracy.

Data Engineer

May 2024 - Dec 2024

IT OpenDoors, LLC | Texas

- Develop ETL pipelines using Databricks, Apache Spark, and Python, handling millions of records daily, which reduces processing time by 30% and delivers real-time insights for analytics teams.
- Create and enforce Python-based data validation frameworks that detect inconsistencies and errors, improving data reliability by 20% and ensuring dependable inputs for machine learning models.
- Build batch and streaming pipelines with GCP Dataflow, integrating multiple sources and deploying predictive models on Vertex AI, enabling faster business forecasting and operational decision-making.
- Orchestrate Azure Data Factory workflows to extract, transform, and load data from Azure SQL and Blob Storage, increasing ETL efficiency and reducing manual data handling by 25%.
- Architect and optimize data lake and warehouse solutions, enhancing storage efficiency and query performance, which accelerates analytics-ready data availability for cross-functional teams.
- Collaborate with business analysts to define source-to-target mappings and transformation rules, ensuring seamless integration and accurate delivery of analytics-ready datasets.
- Consolidate real-time data streams using Apache Kafka, enabling integrated data pipelines and reducing reporting latency by 20% for business intelligence and analytics.
- Design automated Power BI dashboards and reporting workflows, cutting manual preparation by 4 hours per cycle and providing stakeholders with actionable insights for strategic decisions.

Associate Professional Data Analyst
DXC Technology | Bangalore, IN

Jun 2022 - Jul 2023

- Build and deploy anomaly detection models using Python and SQL, identifying missing records and duplicates, reducing false positives by 15% and improving overall data reliability for analytics projects.
- Streamline extraction and transformation workflows with SQL scripts and Python automation, converting complex raw datasets into actionable insights and accelerating report generation by 20%.
- Enhance performance of high-volume queries by optimizing indexing and restructuring tables, increasing processing speed by 40% and enabling faster access for analytics teams.
- Partner with analysts and architects to define source-to-target mappings and transformation rules, ensuring accurate data integration and reducing inconsistencies across business units.
- Consolidate multi-source data pipelines into a centralized warehouse using Apache Kafka, standardizing datasets and cutting manual reconciliation time by 25% for reporting and analytics.
- Create interactive Power BI dashboards with drill-down and visualization capabilities, reducing manual reporting effort by 25% and delivering actionable insights for decision-making.
- Provide clean, validated datasets for predictive modeling and trend analysis, improving the accuracy of cross-functional data science initiatives and supporting strategic forecasts.
- Collaborate with IT and business teams to design heat maps, visual reports, and interactive dashboards, enabling stakeholders to understand complex data patterns and make informed decisions.

Data Analyst

Jun 2021 - May 2022

VizionTech Analytics Pvt. Ltd | Vijayawada, AP

- Execute SQL-based analytics to transform raw enterprise data into structured insights, enabling leadership to make timely and informed business decisions.
- Implement Python scripts for data cleansing and transformation, increasing data accuracy by 15% and ensuring reliability for reporting and analytics processes.
- Build interactive dashboards using Power BI and Tableau, presenting KPIs and trends that reduce manual reporting effort by 20% and support stakeholder decision-making.
- Streamline ETL workflows by integrating multi-source datasets with Azure Data Factory and AWS services, accelerating data ingestion and improving real-time analytics capabilities.
- Conduct comprehensive data quality audits and apply anomaly detection procedures, reducing errors by 20% and maintaining compliance with organizational standards.
- Design relational schemas and optimize data models, improving query efficiency and providing analytics-ready datasets for business teams.
- Enhance performance of high-volume SQL queries through indexing and query optimization, cutting data retrieval time by 25% for critical reporting workflows.
- Collaborate with cross-functional teams to deploy predictive analytics models, delivering actionable forecasts that improve operational efficiency and strategic planning.

PROJECTS

Car Rental Management System

- Designed a relational database in SQL to organize vehicles, customers, and transactions, enabling seamless real-time operational tracking and reporting.
- Automated data ingestion and updates using Python ETL scripts with JDBC connectivity, improving data refresh speed and reducing manual intervention.
- Developed advanced SQL queries and interactive Power BI dashboards, providing key operational metrics and actionable insights for fleet and rental management.

Time-Series Forecasting and Analysis Using Python

- Implemented ARIMA, Prophet, and LSTM models using historical stock data, achieving high predictive accuracy and supporting trend analysis.
- Preprocessed, normalized, and visualized time-series data with Pandas, NumPy, Matplotlib, and Seaborn, improving model training and interpretability.
- Built automated pipelines integrating TensorFlow/Keras and Scikit-learn, enabling continuous data ingestion, model retraining, and actionable forecast visualization.

EDUCATION

Masters in Data Science

Aug 2023 - Dec 2024

The University of Texas at Arlington | Arlington, TX

Bachelors in Information Technology

Jun 2018 - Apr 2022

NRI Institute of Technology | Vijayawada, AP

CERTIFICATIONS & PUBLICATIONS

- **Google Certified:** Professional Data Engineer
- **Microsoft Certified:** Azure Data Fundamentals
- Cloud Computing Certification: **NPTEL**
- **RESEARCH PUBLICATIONS:**
 - A Driving Protocol to Curtail Dangerousness and Over-Shadow Lives, JICR (ISSN: 0022-1945)
 - An Emend Algorithm for Attribute Selection using PCA in High-Dimensional Microarray Datasets, IJAEMA (ISSN: 0886-9367)