# Satish Varma Vejarla

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## Summary

Highly motivated Data Engineer with a Master's degree in Data Science and hands-on experience designing and deploying scalable data pipelines and analytics solutions. Strong background in SQL, Python, and cloud platforms, with a focus on data quality, performance optimization, and turning complex datasets into actionable business insights.

## Technical Skills

**Programming & Querying:** Python (Pandas, NumPy), SQL (Advanced), R (Exposure), Bash
**Analytics & Visualization:** Tableau, Power BI, AWS QuickSight, Grafana, Streamlit
**Data Preparation & Modeling:** Data Cleansing, Data Merging, Data Enrichment, Data Modeling, KPI Development
**Cloud Platforms:** AWS (S3, Glue, Lambda, Athena, Redshift), Azure (Data Factory, Synapse)
**Data Warehousing & Lakehouse:** Snowflake, Amazon Redshift, Azure Synapse
**ETL & Analytics Tools:** AWS Glue, Alteryx (Learning), dbt (Models & Tests – Exposure), Apache Airflow (Concepts)
**Databases:** PostgreSQL, MySQL, MongoDB, NoSQL Databases
**Business Tools:** Microsoft Excel (Pivot Tables, Lookups, Power Query), PowerPoint
**DevOps & Infrastructure:** Docker, Jenkins, Git, CI/CD Pipelines

## Experience

**Accenture Pvt Ltd**  Oct 2021 – Aug 2023
*Data Engineer*  Hyderabad, India

- Engineered end-to-end ETL pipelines using AWS Glue, Lambda, Redshift, and S3 to process and deliver 15+ enterprise datasets for analytics and reporting.
- Designed and maintained a centralized data lake supporting structured and semi-structured data across 5+ business domains, improving data accessibility for BI teams.
- Optimized 30+ Redshift SQL queries and transformations, reducing dashboard latency and improving report refresh performance.
- Automated infrastructure provisioning using Terraform and implemented CI/CD pipelines with Jenkins and Git for reliable deployment of data pipelines.

## Projects

**Walmart Retail Sales & Customer Intelligence** [GitHub] | *Python, Pandas, MySQL, SQL, Tableau*  Jan 2025

- Built an end-to-end retail analytics pipeline processing 10,000+ sales records from 100 Walmart branches into structured, queryable MySQL datasets.
- Developed 20+ advanced SQL queries using joins, CTEs, window functions, and conditional logic to analyze revenue, customer behavior, and product performance.
- Designed Tableau dashboards with KPI cards and trend analysis to deliver branch-level and category-level insights.

**Smart Transportation Analytics System** | *AWS S3, Glue, Athena, Lambda, QuickSight, Terraform, SQL*  Jun 2024

- Designed a cloud-native analytics platform on AWS to process and analyze 10M+ transportation records.
- Implemented automated ETL pipelines using AWS Glue and S3 with Terraform-managed infrastructure.
- Optimized Athena queries and QuickSight dashboards to track congestion, ridership trends, and transportation KPIs.

**ChatWise: Smart Insights from Conversations** | *Python, NLP, FastAPI, Streamlit, Docker, Jenkins, DistilBERT, SBERT, BERTopic*
Aug 2024

- Built an NLP-driven analytics platform to extract insights from large-scale chatbot conversations.
- Trained a DistilBERT intent classifier achieving 99.2% accuracy and applied SBERT embeddings for semantic clustering.
- Used BERTopic to identify recurring issues, emerging trends, and customer pain points.

**Visualizing Decades of Warming: Climate Change Impact** | *Python, Pandas, Plotly, Flask, Grafana*  Jan 2024

- Analyzed 140+ years of NASA and NOAA climate data to identify long-term temperature trends.
- Built Python pipelines and dashboards to visualize climate patterns and anomalies.

## Education

**Master of Science in Data Science**  Aug 2023 – May 2025
University of Massachusetts, Dartmouth  GPA: 3.61/4.0

**Bachelor of Technology in Electrical and Electronics Engineering**  Jul 2017 – Apr 2021
Lendi Institute of Engineering and Technology  GPA: 3.14/4.0

## Certifications

- AWS Certified Cloud Practitioner
- JPMorgan Chase & Co. Software Engineering Job Simulation – Forage
- Data Analytics Job Simulation – Forage
- ETL in Python and SQL – LinkedIn Learning
- Career Essentials in Data Analysis – Microsoft & LinkedIn Learning
- Excel Data Filtering & Sorting – Coursera