GOVARDHAN REDDY MORAMREDDY

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SUMMARY

Cloud focused Data Engineer with 4 years of experience building and orchestrating scalable ETL pipelines using AWS services such as S3, Glue, Redshift, Lambda, and Athena. Proficient in Python, SQL, and Airflow for automating data ingestion and transformation. Delivered analytics-ready datasets for machine learning, dashboarding, and BI tools including Tableau and Power BI. Skilled in cloud cost optimization through DevOps practices using Terraform, CloudFormation, and CI/CD pipelines.

SKILLS

- **Languages:** C, Python, SQL, Java, Scala, R
- **Cloud Platforms:** AWS (S3, Redshift, Lambda, EMR, Athena), Azure, GCP, Firebase, Terraform
- **Data Engineering & Pipelines**: Data Pipeline Development, Airflow, dbt, Delta Lake, Great Expectations
- **Data Visualization:** Power BI, Tableau, Streamlit, Plotly
- **Databases**: MySQL, PostgreSQL, Snowflake, Google Sheets (via API)
- **Data Engineering**: Data pipelines, Data ingestion, Data transformation, pipeline orchestration
- **DevOps & Tools**: Docker, Kubernetes, Jenkins, GitHub, JIRA, IntelliJ, Bitbucket, Airflow, CI/CD pipelines
- **Big Data / Analytics**: Apache Spark, Apache Kafka, Apache Hadoop
- **Operating Systems**: Linux, Unix

PROFESSIONAL EXPERIENCE

CHICAGO EDUCATION ADVOCACY COOPERATIVE, *Remote*   *Jun 2025 - Present*
Project: Smart Impact Dashboard Builder (Streamlit, Plotly, Google Sheets API)

- Designed and deployed a cloud-based **KPI dashboard** adopted by **10+ nonprofit partners**, cutting monthly reporting time by **60%** and enabling **real-time, self-service analytics**.
- Built automated data pipelines using **Python** and **Streamlit** to process **50+ grant KPIs**, improving scalability and pipeline performance.
- **Integrated** the **Google Sheets API** for **live data syncing**, saving **8+ hours/week** of manual effort and improving cross-functional collaboration.

BROOKSOURCE, *Livonia, Mi*   *Dec 2024 - May 2025*
Data Analyst| Power BI Dashboard & Reporting Automation

- Developed and deployed 10+ **Power BI dashboards**, integrating and transforming data from **SQL Server**, **Snowflake**, and **Redshift** to enhance business intelligence.
- Automated recurring business intelligence reports and implemented **row-level security (RLS)** across 5+ departments, reducing manual reporting efforts by **25%** and improving **data governance**.
- Designed and tuned 50+ complex **SQL queries** to extract, transform, and aggregate large datasets (10M+ records), enabling real-time **KPI tracking**, **operational reporting**, and **ad hoc analysis**.
- Collaborated with **cross-functional teams** to gather reporting requirements and deliver **data visualization** solutions, increasing operational insight visibility by **35%**.
- Integrated structured and semi-structured data into centralized **Power BI models**, empowering 100+ users with **self-service analytics** and reducing manual workload by **40%**.
- Performed **dashboard performance tuning** and **data model optimization**, resulting in a **30–40%** reduction in load times and enhanced **user experience**.

INFOSYS LTD., *Hyderabad, India*   *Aug 2020 - Aug 2023*
Data Engineer| CI/CD for Data Workflows (GCP & AWS)

- Developed and managed 100+ **Apache Airflow DAGs** for **batch** and **streaming data pipelines** using **SLA monitoring**,task dependencies, and custom **Python operators**, improving pipeline reliability by **25%**.
- Upgraded legacy DAGs to **Airflow 2.x**, resolving deprecated APIs and aligning with a **modular scheduler/executor** design to enhance **workflow orchestration** efficiency
- Built **parameterized**, **metadata-driven DAGs** using **Python**, **Jinja**, and **YAML templates**, reducing development time by **40%** and enabling **dynamic pipeline execution**
- Engineered **high-throughput pipelines** on AWS (**EC2**, **S3**, **Lambda**, **Step Functions**) to process over **10 TB/day**, reducing storage costs by **20%** through **S3 partitioning** and **lifecycle policies**.
- Integrated **GCP services** (**Big Query**, **GCS**) into **cross-cloud workflows** and enforced **IAM/RBAC policies** to ensure secure and compliant multi-cloud data access.
- Automated **CI/CD workflows** using **Jenkins**, **Terraform**, **Bitbucket Pipelines**, and **Git**, reducing deployment effort by **60%** and improving **environment provisioning** consistency.
- Managed **Bitbucket repositories** for DAGs, secrets, configurations, and deployment scripts, improving **code traceability** and supporting **modular development practices.**

- Implemented **CloudWatch** and **Airflow monitoring** with alerts on **SLA breaches**, retries, and failures—cutting incident response time by 40%.
- Provisioned and maintained **cloud infrastructure** using **Terraform modules** for **Airflow**, **IAM roles**, **S3 buckets**, and monitoring tools, increasing provisioning speed by **50%**.
- Built custom **Python hooks** and **API connectors** to automate **data ingestion** from third-party sources, reducing reliance on manual **ETL processes**.
- Created **event-driven workflows** using **AWS Event Bridge** and **GCP Cloud Scheduler**, enhancing **pipeline orchestration flexibility** across **hybrid cloud environments**.
- Authored 50+ optimized **SQL queries** to **transform** and **aggregate large datasets** (10M+ rows), enabling **ad hoc analytics**, **anomaly detection**, and **KPI reporting**.

ACADEMIC PROJECTS

Cloud-Based ETL & Analytics Pipeline   *Apr 2025 - May 2025*
- Designed and deployed **ETL pipelines** to extract **structured data** from **ERP**, **CRM**, and marketing systems into **Snowflake** and **Amazon Redshift**, enabling downstream **data analytics** and **automated reporting**.
- Built and orchestrated **25+ Apache Airflow DAGs** for **batch processing** with **SLA monitoring**, ensuring **data reliability** and a **99.5% pipeline success rate**.
- Developed **data validation scripts** (**Python**, **SQL**) and **Tableau dashboards** for **KPI tracking** (revenue, churn), reducing manual reporting by **40%**.

Sales Data Analysis and Dashboard   *Jan 2025 - Mar 2025*
- Cleaned and transformed **large datasets** (**Python**, **SQL**), improving **data quality** for analysis.
- Conducted **exploratory data analysis (EDA)**, identifying trends (e.g., **10% seasonal sales growth**, top-performing products).
- Built **interactive Tableau dashboards** with **drill-down filters** for **sales performance** and **regional analysis**.
- Optimized **SQL queries** for **cross-regional sales reporting**, boosting **query efficiency by 15%**.

EDUCATION

Central Michigan University, *Mount Pleasant, MI*   *Oct 2023 - May 2025*
Master of Science in Information Systems | **GPA***: 3.5/4*
Relevant Coursework: Data Visualization, Data Management, Big Data Analytics, Cloud Computing, Data Warehousing, Statistical Methods

KL University, *Guntur, India*   *Aug 2017 - Apr 2021*
Bachelor of Technology in Electronics and Communication Engineering
Coursework**:** Database Management Systems, Programming in Python, Data Structures and Algorithms, Statistics, Learning Basics, Computer Networks

CERTIFICATIONS
- AWS Certified Cloud Practitioner – Amazon Web Services
- Apache Kafka – Infosys
- Spark Professional – Infosys
- Big Data Developer – Infosys

AWARDS & RECOGNITION
- 1st Place – Infosys Cloud Hackathon (2023)
- Engineering Excellence Contributor – BMG Project (2024)