Jyothi Vardhana Rao Metta

Tampa, FL

📞 +1-813-797-9106 ✉ vardhanrao9849@gmail.com 🔗 https://www.linkedin.com/in/jyothi-vardhana-rao-metta-515213193/

⚙ https://github.com/Jyothivardhana0009

Summary

Certified AWS Data Engineer and Developer Associate with 4 years building cloud-native data lakes and real-time pipelines on AWS and Snowflake. Expert in Glue, Lambda, Kinesis, Spark, advanced SQL, and BI tools, automating ETL, hardening governance, and tuning queries for sub-second insights. Delivered 45 % faster analytics, trimmed compute costs 22 %, and accelerated project delivery 15 % across multi-terabyte workloads.

EDUCATION

University of South Florida, Muma college of Business — **Aug 2023 - May 2025**
Master of Science, Business Analytics and Information Systems — *Tampa*
- **GPA:** 3.8

TECHNICAL SKILLS

- **Languages**: Python, SQL, R, Scala, C/C++, Hive, YAML, PySpark, Pandas, Numpy
- **Cloud Services**: AWS, Google Cloud Platform, S3, Lambda, CloudFormation, IAM, API Gateway, EC2, RDS, VPC, Route53, Direct Connect, Glue, EMR, Athena, Kinesis, Lake Formation, SWF, Step Function, DMS, Sagemaker, KMS, CloudWatch, Elastic Kubernetes, Quicksight, Azure Data Factory, Docker, Redshift, DynamoDB
- **Tools**: Power BI, Tableau, GitHub, DBeaver, Databricks, Apache Airflow, Kafka, PostgreSQL, MongoDB, Snowflake, Kubernetes, Oracle Database, Hadoop, MSSQL, Azure Synapse, Cassandra, SAS, ServiceNow
- **Business & Financial Analytics**: A/B Testing Experimentation, Machine Learning, ETL, Data Modeling, DBT, Kimball Methodology, ELT, SaaS, IaaS

EXPERIENCE

Infosys Pvt Ltd. (Client-NextEra Energy Inc.) — **Dec 2021 - Jul 2023**
Cloud Data Engineer — *India*
- Collaborated with **NextEra Energy** to lead cross-functional teams in delivering technical solutions using **Agile** methodology. Facilitated weekly **Scrum** calls with stakeholders to review **Jira** tasks, increasing delivery speed by and workflow efficiency by 15%.
- Deployed **7+** scalable data pipelines using AWS **Lambda**, **MSK**, and **API Gateway** to streamline on-premises consumer jobs, boosting **data processing**. Documented the entire architecture and processes in **Confluence** for cross-team visibility and future scalability.
- Engineered scalable **AWS Glue** jobs using **PySpark** to perform complex **ETL** transformations on high-volume raw Parquet files from S3, with efficient integration into **Redshift**. Enhanced data pipeline throughput and performance by 20%, supporting faster analytics.
- Secured data pipelines by defining granular **IAM** roles and custom policies and configuring **VPC** subnets and Security Groups, integrated AWS **SNS** and SQS to implement resilient disaster alert mechanisms.
- Executed large-scale migration of historical data from **Snowflake** to Amazon S3 using **AWS DMS**, ensuring data integrity, schema mapping. Leveraged **AWS Glue** for cataloging and **Athena** for post-migration validation to enable query-ready storage for downstream analytics.
- Implemented dynamic **Row-Level Security (RLS)** in **Power BI** using **DAX** filters and role-based access controls to enforce user-specific data visibility. Strengthened report security and compliance by aligning access restrictions with organizational roles.

Digital IT Hub — **Jan 2020 - Nov 2021**
Data Engineer — *India*
- Authored AWS CloudFormation templates in **YAML** to implement infrastructure as code (**IaC**) for scalable, consistent cloud resource provisioning. Automated deployments using **GitHub** Actions **CI/CD** pipelines, ensuring reliable environment setups.
- Developed modular **DBT SQL** models on **MySQL** with ref()-driven DAG dependencies and built-in tests to enable scalable **ETL transformations** for analytics, boosted performance by 35% through incremental materializations and targeted **SQL** query optimizations.
- Built **Python** scripts in **Azure Databricks** to ingest and transform Parquet, CSV, and JSON datasets, optimizing **Spark** configurations and dynamic cluster scaling to boost processing capacity by 200% and cut runtime by 60%.

Bharat Dynamics Limited (Government of India Enterprise) — **Feb 2019 - Jul 2019**
Intern — *India*
- Collaborated with senior scientists to preprocess and standardize complex experimental data using **Python** scripts and **pandas** for accurate downstream analysis.
- Optimized **SQL** and PL/SQL procedures on Oracle databases, reducing execution time by 45%, and managed installations and configurations of **OBIA 10.2** and **OBIEE 12c** for enterprise reporting.
- Monitored 15+ **Kafka** consumer jobs, monitoring lag and throughput metrics to ensure **real-time** data ingestion and 99.9% pipeline availability.

PROJECTS

Analysis of Seasonal Hash Rate Changes and Crypto Price Impact — **Feb 2025 - Mar 2025**
- Conducted Time Series Analysis on historical crypto price data using AWS Glue, Athena, Lambda, Kafka and S3, and built a Tableau dashboard highlighting trends and potential correlations with temperature-spotlighting Binance Coin's 133% growth.

Real-time Custom Weather API — **Mar 2025 - Apr 2025**
- Built a Real-Time weather data pipeline using OpenWeather, Kinesis, and ECS Fargate, storing processed data in DynamoDB and exposing it via secure, versioned endpoints through API Gateway for querying U.S. state-level weather conditions.
- Created a comprehensive Swagger specification document to standardize and document the API for developer usability.

CERTIFICATIONS

- **AWS Certified - Developer Associate**: Validation Number : 652fa87efd8f4014a14f4ccleede7c6f
- **AWS Certified - Data Engineer Associate**: Validation Number : 9f3b013ddec6477181e06587e06ac72b