

# Shyam Mohan V M

## Data Engineer

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### Summary

Data Engineer with 1.8 years of experience building scalable data pipelines and backend systems. Skilled in Python, SQL, Airflow, AWS, GCP, and Snowflake, with proven success in automating deployments and cutting manual effort. Strong communicator, recognized with multiple awards for innovation, quality, and high-impact delivery.

### Skills

**Programming Languages:** Python, SQL

**Data Engineering Tools:** Apache Airflow, UC4, Snowflake

**Frameworks:** Django, Streamlit

**Databases:** MySQL, PostgreSQL

**Cloud Platforms & DevOps:** AWS, GCP, Git, Docker, Kubernetes

### Experience

**Analyst (Data Engineering role)**      Factspan Analytics, Bangalore      Jan 2024 – Present

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- Designed and maintained scalable **ETL pipelines** for a **global entertainment leader** using **Python, Airflow, AWS, and Snowflake**, processing terabytes of real-time data from diverse sources.
- Migrated legacy data warehouses to Snowflake, boosting query performance and scalability.
- Developed automated data quality checks and development workflows, reducing manual effort by 50%.
- Leveraged internal enterprise data platform architecture to orchestrate deployments, enable CI/CD workflows, and streamline data engineering operations.
- **Recognitions & Awards:**
  - *Learning Champ* – Outstanding performance in training initiatives.
  - *Sweat the Details* – Driving innovations and delivering exceptional quality.
  - *Spot Award* – Critical contributions to a high-impact project.

### Projects

#### Critical Data Source Migration

Factspan Analytics

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- Modified and optimized existing data pipelines to ensure seamless ingestion and processing of sales reporting data from a new retailer-provided reporting platform, replacing a legacy system.
- Utilized AWS, Snowflake, Python scripting, Globalscape, UC4, and proprietary data orchestration frameworks to execute the migration.
- Delivered solutions under a strict deadline to support uninterrupted product sales reporting for a global entertainment leader in partnership with the world's largest retailer.
- Led integration, testing, and troubleshooting efforts to maintain data accuracy and system

reliability during the source transition.

- Maintained a 5/5 customer satisfaction rating throughout the project duration.
- Successfully executed my first professional project, a critical data source migration supporting major global clients.

## Data Pipeline Development Project

Factspan Analytics

- Designed and implemented critical data pipelines for a global entertainment leader leveraging AWS, Snowflake, Apache Airflow, and an internal data orchestration framework.
- Integrated diverse data sources, including MySQL databases and real-time streaming APIs, ensuring seamless data ingestion and processing.
- Executed efficient ETL workflows and applied medallion architecture principles to prepare high-quality, reporting-ready datasets.
- Developed automated development workflows, reducing manual effort by 50%.
- Maintained 5/5 customer satisfaction rating throughout the project duration.

## Education

- **National Institute of Technology, Calicut, India** 2021 – 2023  
Master of Technology (M.Tech), Computer Science and Engineering (Information Security)  
CGPA: 8.29/10
- **Government Engineering College, Thrissur, Kerala, India** 2016 – 2020  
Bachelor of Technology (B.Tech), Computer Science and Engineering  
CGPA: 7.46/10

## Publications

**Shyam Mohan V M**, Krishnendhu S P, Prabu Mohandas. *Real-Time Traffic Signal Prediction and Control using Deep Q-Network*. In Proceedings of the 2023 International Conference on Computer, Electronics & Electrical Engineering & their Applications (IC2E3), 2023. [[10.1109/IC2E357697.2023.10262818](https://doi.org/10.1109/IC2E357697.2023.10262818)]