

Mahesh Naik Guguloth

Data Engineer

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SUMMARY

Data Engineer with 4+ years of experience in designing and implementing scalable data solutions. Proficient in building and securing data access for large datasets, optimizing performance with AWS and Snowflake, and automating ETL workflows. Skilled in SQL, data modelling, and utilizing advanced data processing and big data technologies, including Hadoop and Spark. Known for driving impactful data insights and supporting business decision-making through robust metrics and data architecture.

TECHNICAL SKILLS

• Data Engineering & ETL	AWS Glue, Kinesis, SQL Server Integration Services (SSIS), PySpark, Pandas
• Big Data	Hadoop, Spark, Hive, EMR
• Databases	Snowflake, MySQL, PostgreSQL, AWS Redshift, DynamoDB
• Programming	Python, Java, C++, JavaScript, R, SQL, Scala
• Cloud & IaC	Amazon Web Services (S3, Lambda, IAM, CloudWatch, VPC, FireHose, Cloud9), Terraform, Boto3, CLI
• Machine Learning	Scikit-learn, TensorFlow, Keras, NLTK
• CI/CD	Jenkins, Git, GitHub, Docker, CloudFormation
• Security & Compliance	AWS IAM, AWS Key Management Service (KMS), GDPR
• Data Visualization	Power BI, Tableau
• Development & IDEs	Jupyter Notebook, Google Colab, VS Code, Cloud9
• OS & Methodologies	Windows, macOS, Linux, Agile, Scrum

PROFESSIONAL EXPERIENCE

MTX Group	Albany, New York
Data Engineer	Feb 2024 - present
<ul style="list-style-type: none">Designing and implementing secured access to large datasets for real-time and batch data processing, enhancing analytics accessibility across teams.Optimizing data architecture and pipeline scalability, integrating AWS and open-source technologies to improve retrieval speed and reduce costs.Automating ETL workflows with Python and AWS, minimizing manual interventions and reducing processing time by 40%.Tuning application and query performance using profiling tools, leading to 30% faster query execution.Ensuring data integrity and compliance through role-based access, encryption, and monitoring practices.Developing dashboards and metrics for business decision-making, enhancing data-driven insights for stakeholders.Implementing CI/CD best practices to streamline deployment and maintain code quality across data pipelines.	
Logic Square Private Limited	Pune, India
Associate Data Engineer	Aug 2019 - Jun 2022
<ul style="list-style-type: none">Automated ETL workflows with AWS Glue, Kinesis, and Lambda, enabling real-time transformations and reducing processing time by 40%.Developed scalable storage and retrieval solutions using AWS S3 and Athena, achieving a 35% reduction in query times.Utilized AWS IAM roles to secure access and integrate metadata with Glue Data Catalog, ensuring secure, easy-to-navigate data architecture.	

- Integrated data from external **APIs** with AWS S3, conducting advanced analytics with Redshift, providing actionable insights.
- Monitored data workflows using AWS CloudWatch, reducing downtime by 25% and enhancing performance for data-driven reports in **Power BI** and **Tableau**.
- Improved data preparation in Glue, using SQL for cleaning and standardizing **datasets** for analytics.

EDUCATION





Master of Science in Data Science

[State University of New York at Albany, New York](#)

Bachelor of Engineering in Electronics and Communication Engineering

[Sreenidhi Institute of Science and Technology, Hyderabad, India](#)

CERTIFICATIONS

- **SnowPro Core Certification** 
- **Data Engineer Professional Certificate** 
- **SQL and PostgreSQL Bootcamp** 
- **Data Science Foundations** 

PROJECTS

NYC Yellow Taxi Data Analytics Pipeline

Aug 2023 - Dec 2024

- **Developed an end-to-end data pipeline** to process NYC Yellow Taxi trip data, transforming raw data into a format suitable for visualization in Looker Studio.
- **Utilized AWS S3 for data storage** and **EC2 for ETL orchestration** with **mage.ai**, enabling efficient data transformation, cleaning, and integration.
- **Performed data cleaning** and format standardization in Python, converting geospatial data to a compatible format for analytics.
- **Loaded transformed data into Amazon Redshift**, creating a centralized analytics database for efficient querying and reporting.
- **Built a Looker Studio dashboard** with interactive map visualizations, enabling stakeholders to analyze trip data insights by pickup and drop-off zones in NYC.

LEADERSHIP EXPERIENCE

- Led National Social Service as **Team Lead**, organizing and managing multiple community service projects, coordinating efforts across diverse groups to address local community needs.
- Fostered teamwork and leadership development within the team, ensuring successful execution of initiatives and building stronger community engagement.