

# SHRIMAN M

📍 Bangalore, India

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Data Engineering professional with 2+ years of experience in designing and developing robust ETL pipelines using Databricks, SQL, and PySpark across the full data lifecycle. Proven expertise in building parameterized, reusable workflows, optimizing large-scale data processing, and managing data quality through advanced Delta Lake features. Strong understanding of mart layer architecture, with hands-on experience in AWS S3 integration and Agile project execution. Passionate about AI and innovation, demonstrated by building an AI-powered SQL generator using Amazon Bedrock that reduced query development effort by 60%. Adept at translating business logic into scalable, high-performance data solutions.

## SKILLS

- Programming Languages: SQL, PostgreSQL, Python, Pyspark, HTML CSS, JS, MongoDB, Basics of MERN Stack
- Database and Datawarehouse: Databricks, Delta Lake
- Amazon Web Services Ecosystem: S3, IAM
- Artificial Intelligence: Generative AI (Prompt Engineering, Amazon Bedrock & Q, ChatGPT, Claude, Copilot, Replit, V0), AI Agents (Basics)
- Version Control & Collaboration: Git, GitHub, VSTS (Azure DevOps), JIRA
- Other Tools and Utilities: Jupyter Notebooks, Advanced Excel, Miro, Figma, Vercel, Render
- Soft Skills: Analytical, critical thinking, team building, Adaptability
- Professional Traits: Resourceful, versatile, and able to align growth with enterprise goals.

## WORK EXPERIENCE

### Publicis Groupe Epsilon Developer 2

08/2023 - Present

#### Database & ETL Development (Databricks | SQL | PySpark | AWS S3)

- Developed and maintained scalable data pipelines in Databricks using SQL and PySpark, covering end-to-end workflows across inbound, mart, and extract layers, while closely collaborating with BSA teams for requirement-specific Concerns and supporting testers for validation and issue resolution.
- Built reusable, parameterized notebooks to standardize development practices and improve efficiency across multiple data processing scenarios, reducing code duplication by 40% and accelerating onboarding for new use cases.
- Leveraged Delta Lake features such as time travel, merge, and vacuum for handling data corrections, maintaining historical versions, and ensuring reliable data lifecycle management.
- Designed and implemented complex mart layer tables using advanced SQL queries involving CTEs, window functions and logic aligned with evolving business requirements.
- Automated data ingestion and export processes between AWS S3 and Databricks, enabling seamless file-based data flow through scheduled read/write operations and reducing manual effort by 30%.
- Optimized pipeline performance by tuning joins, reducing shuffles, and following best configuration practices, improving overall processing time by 25% for high-volume datasets.
- Orchestrated Databricks workflows to support the campaign team in continuously tracking campaign metrics like sent counts, delivery status, and error patterns.
- Collaborated within an Agile team setup using Azure DevOps (VSTS) for sprint planning, task tracking, and effective coordination throughout the development lifecycle.

#### ETL Testing & Data Validation (SQL, Redshift)

- Validated data integrity and transformation accuracy by designing and executing comprehensive test cases, ensuring compliance with quality standards and business logic during ETL processes.
- Monitored data movement across pipelines, identifying and resolving anomalies, thereby maintaining seamless data flow and minimizing disruptions.
- Managed production data validation, proactively addressing complex issues to prevent critical data discrepancies from affecting end users.

## Projects / Internal Initiatives (AI)

- Built an AI-powered SQL query generator during an internal hackathon using Amazon Bedrock, which takes functional requirement sheets as input and intelligently parses join logic, mappings, and transformation rules to auto-generate optimized CREATE, INSERT, and MERGE queries in structured, review-ready files — reducing manual query writing effort by up to 60%, minimizing human error, and accelerating developer onboarding and delivery cycles.

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## EDUCATION

**BE IN INFORMATION SCIENCE**

**08/2019 – 05/2023**

**NITTE MEENAKSHI INSTITUTE OF TECH., Bengaluru, IN**

## ACHIEVEMENTS & COMPETENCIES

- Nominated for the “Magnitude Award” by the Project Vice President for exceptional innovation and delivery — including development of an AI-powered SQL query generator using Amazon Bedrock and developing a Campaign Monitoring system that automated Campaigns tracking which minimized manual effort across the campaign lifecycle
- Initiative-taker, team player, extra miler, and self-leader.
- Organized various project outings, team collaboration games and received accolades for the ability to keep a positive outlook even in the most critical project phases.