

Shweta Mahapatra

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📍 Hyderabad

Profile

Data Engineer with 3 yrs of experience and proven expertise in designing robust, scalable data solutions in the financial domain. Strong track record in migrating legacy systems to modern big data platforms using tools like Apache Spark and AWS. Skilled in designing end-to-end data pipelines and integrating cloud-native architectures.

Professional Experience

Kfin Technologies Ltd. Data Engineer

09/2022 – present | Hyderabad, India

- **Cloud Migration and Modernization:** Led the migration of a large-scale data project from on-premises systems to AWS, re-engineering the codebase from SQL procedures to distributed Spark-Scala based processing. This migration leveraged AWS EMR, Athena, Step Functions, Lambda to reduce infrastructure cost by 45% and cut the processing time by 70%.
- **Designed and deployed a scalable Data Lake architecture on S3** to consolidate multi-year historical data, and provisioned external tables via AWS Athena to enable centralized ad-hoc querying for business intelligence and reporting teams.
- **Data Migration with AWS DMS:** Designed and executed the migration of 100+ TB of historical commission data from MS SQL Server to Amazon S3 using AWS DMS, implementing schema transformations to integrate legacy data with the new analytics platform.
- **Resolved a critical operational bottleneck** for 12+ AMCs monthly by automating manual data cycle movement and eliminating error-prone code changes via a user-driven UI.
- **Implemented robust, independent control reports** to validate the accuracy, completeness, and correctness of all generated data before final consumption.
- **Collaboration and Best Practices:** Actively contributed to cross-functional teams, establishing best practices for data engineering, cloud resource optimization, and continuous integration for data workflows.
- **Developed a Scala-based emailer** module integrated within Spark workflows to automatically trigger complex broker notifications post computation, reducing communication turnaround time and manual intervention.

Skills

Programming Languages

Scala, python, java

Orchestration Tools

Apache airflow, AWS step function

Cloud Platforms

AWS s3, EMR, step functions, Lambda, Notebook Editor, EC2

Big Data Frameworks

Apache Spark, Data warehousing and Apache airflow, Hive, snowflake

Databases

Microsoft SQL Server, MySQL, Postgres

Education

Btech in Electronics and Instrumentation,
Odisha University of Technology and Research

04/2018 – 05/2022
Bhubaneswar

Awards

Rise Awards by kfintech

12/12/2025

Courses

Big data technologies, Grow Data skills