

# Satyam Kumar

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## PROFESSIONAL SUMMARY

Data Engineer with 3 years of experience designing scalable ETL and streaming data platforms on AWS and Spark ecosystems. Skilled in building production-grade pipelines using Glue, PySpark, Airflow, Kafka, and Redshift with strong focus on reliability, performance optimization, and monitoring. Proven track record of reducing pipeline runtimes by 40–65%, improving system stability, and architecting solutions for large-scale enterprise datasets (300M+ records).

## Technical Skills

**Programming Languages :** Python, SQL

**Big Data Technologies :** PySpark, Spark SQL, Apache Spark, Kafka (Streaming), Hive

**Cloud & Data Platforms :** AWS S3, Glue, Redshift, EMR, EC2, IAM, CloudWatch, Databricks, ADLS , ADF

**Orchestration & DevOps Tools :** Apache Airflow, Docker, Kubernetes, Git, CI/CD

**Core Concepts:** ETL/ELT, Real-time & Batch Pipelines, Data Modeling, Data Quality, Monitoring & Alerting, Performance Tuning, Production Support

## Experience

### Concert AI - Data Engineer

Sep 2025 - Present

- Re-architected ML data processing from notebook-based execution to distributed AWS Glue + PySpark pipelines, reducing runtime by 65% and enabling 3× faster processing
- Engineered large-scale transformations and joins across 300M+ rows, improving query performance by 40%
- Designed controller-based workflow orchestration framework in AWS Glue to dynamically trigger dependent jobs with parameter passing, enabling fully automated multi-stage pipelines
- Refactored legacy scripts into an object-oriented PySpark framework with a reusable base class extended by 30+ jobs, reducing code redundancy and improving maintainability
- Automated external table creation in Glue Data Catalog for S3 datasets, reducing manual setup effort by 80%+
- Built adherence/data-quality validation pipelines to enforce consistency and reduce production defects by 50%
- Consolidated multiple schemas into unified analytics layer, simplifying downstream reporting and improving reliability
- Built automated reporting pipelines and dashboard exports, saving analysts 95% manual effort
- Diagnosed architectural flaw in distributed Spark inference pipeline where partitioning caused inconsistent model predictions; redesigned workflow using AWS Step Functions + EC2 single-node execution, restoring prediction accuracy and ensuring deterministic results

### Deloitte - Data Engineer

Feb 2023 - Sep 2025

- Designed and deployed scalable PySpark + AWS Glue ETL pipelines for large-scale transactional/logistics datasets across 10,000+ standardized tables
- Migrated legacy Informatica workflows to AWS-native Spark architecture, improving runtime by 40% and reducing infrastructure costs
- Built an end-to-end ingestion and transformation pipeline to move and prepare data from DynamoDB to S3, helping replace manual paper forms with digital signatures.
- Designed event-driven ingestion patterns enabling near real-time data availability for analytics
- Optimized client data models by reducing schema complexity by ~50%, which improved query performance and reduced storage costs.
- Implemented an automated alerting mechanism using Power Automate to notify team members via Microsoft Teams, upon AWS Glue job failures, reducing reliance on email monitoring and enabling faster incident response.
- Optimized Glue jobs using partition pruning, caching, and Spark tuning to reduce memory usage and execution time.
- Designed and orchestrated 100+ production DAGs using Apache Airflow with retries, SLA alerts, and failure recovery ensuring 99.9% pipeline reliability
- Owned UAT and production releases, ensuring smooth cutovers and minimal downtime
- Independently developed a low-code internal tool using Power Apps + Power Automate to streamline assessments, improving efficiency across business units.

## **Education**

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### **Jain University**

Master of Computer Applications ( **MCA**)

Bangalore, Karnataka  
March 2023 - May 2025

### **CMR University**

Bachelor of Computer Applications ( **BCA**)

Bangalore, Karnataka  
July 2019 - May 2022

## **Certifications and Awards**

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- **Databricks Data Engineer Certificate**
- **AWS** [ Certified Cloud Practitioner , Certified Solutions Architect – Associate]
- Nominated and Awarded [**Spot Award**] for developing "Internal ILA assessment" tool for Deloitte.
- Awarded [**Applause Award**] for outstanding impact as a Data Engineer for driving development resulting in significantly enhanced business data insights, decision-making and cost saving.