

Samarth Kawade

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Objective

Data Engineering professional with 5+ years of experience architecting scalable AWS and big data solutions that increased data processing efficiency by 80% and automated 60% of manual workflows. Aiming to lead data engineering initiatives that drive actionable insights and business transformation.

Education:

- **L. D. College of Engineering - Ahmedabad (Sept 2020)**
B.E. in Electronics and Communication Engineering | CGPA (8.91/10)
- **Government Polytechnic, Gandhinagar (May 2017)**
Diploma in Electronics and Communication Engineering | CGPA (9.5/10)

Skills:

- **Programming Languages:** Proficient in Python, SQL, PySpark
- **Big Data & Distributed Systems:** Expertise in Hadoop, Spark (PySpark, Hive, Spark SQL) and NoSQL databases (MongoDB, DynamoDB).
- **Cloud Platforms:** Advanced experience with AWS (Glue, EMR, Lambda, Redshift, S3, Athena, CloudFormation, Step Functions, Aurora, SageMaker)
- **AI & GenAI:** Experienced in building GenAI-based automations using LangChain, LangGraph, RAG, Gemini, and Python with Streamlit for AI-driven tool development and productivity enhancements.
- **Data Orchestration & Pipelines:** Hands-on experience with Apache Airflow, AWS Step Functions, and Glue Workflows; built and optimized large-scale ETL/ELT pipelines and real-time streaming solutions using Kafka, Kinesis, and Spark Structured Streaming.
- **Visualization & Reporting:** Skilled in Tableau and AWS QuickSight, with proven ability to develop monitoring dashboards and deliver stakeholder-centric insights.
- **Data Warehousing & Modelling:** Skilled in designing and managing warehouses, lakes, and distributed stores at multi-PB scale; strong in query optimization, partitioning, and file format tuning.
- **Collaboration & Agile Practices:** Experienced with Agile methodologies, GitLab, JIRA, Azure DevOps, and Confluence, with strong communication and stakeholder management skills.

- **Other Expertise:** Strong statistical analysis and competitive analytical/deduction skills.

Experience

Senior Data Engineer/ Consultant

Deloitte USI . Aug 2024 - Now

Client - Vanguard

- Directed development of a GenAI-powered Test Data Management solution using LangGraph, Gemini, and Streamlit, enabling engineers to generate production-grade datasets and improving QA test accuracy substantially.
- Developed and optimized scalable data pipelines in Python, PySpark, and Hive to unify enterprise data across Redshift, Hadoop, and AWS storage systems.
- Built high-throughput orchestration frameworks (Airflow, Step Functions, Glue) to streamline data ingestion from diverse structured, semi-structured, and streaming sources, ensuring near-zero data loss and minimal downtime.
- Introduced low-latency real-time analytics pipelines with Kafka, Kinesis, and Spark Structured Streaming, enabling rapid decision-making and anomaly detection.
- Drove engineering automation through AI-enhanced workflows and Spark/SQL optimizations, reducing manual workloads by over 60% while increasing consistency.
- Delivered executive-facing dashboards via Tableau and QuickSight, giving leadership real-time visibility and improving monitoring precision by up to 80%.
- Automated large-scale ingestion and transformation workloads, cutting operational delays by 80% and ensuring reliable delivery of business-critical data.
- Delivered optimized queries and smarter data models, improving reporting turnaround times and analytical accuracy for high-volume business scenarios.

Data Engineering Analyst

Accenture Solutions Pvt. Ltd. Oct 2020 - July 2024

- Create Dynamic ETL pipelines using PySpark in AWS Glue to replicate data from various sources like SAP Legacy systems with CDC functionality.
- Created Automation script using Python and Excel to generate Glue Job config pipelines and ETL Pipelines for excellent scalability.
- Created Automatic Data Cleaning and Orchestration processes using AWS Step function and AWS EventBridge.
- Presented Weekly Progress Status and shared the insights and knowledge gained.
- Conducted Monthly Knowledge Transfer sessions on the solution/Modules that me and my team worked on.

Certifications

- AWS Certified Data Engineer - Associate (Acquired in Dec 2024)
- AWS Certified Data Analytics – Specialty (Acquired on Jan 2023)
- AWS Certified Developer – Associate (Acquired on May 2022)
- SAP Certified Developer Associate – SAP extension Suite (Acquired on Mar 2022)

Activities and Interests

Dance, Playing PC FPS Games, MotoVlogging

Sincerely,

Samarth Kawade

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