

Hulash Chand

Data Engineer

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Summary

AWS Certified Data Engineer with 5+ years' experience designing and optimizing real-time streaming pipelines, cloud-native ETL/ELT workflows, and modern data lakehouse architectures. Proven track record in leveraging AWS services, Apache Kafka, and Python to deliver high-availability, cost-efficient, and business-critical data solutions that drive measurable impact.

Technical Skills

Cloud Platforms: AWS (S3, EMR, Redshift, Lambda, Glue, Kinesis, RDS, Aurora, DynamoDB, MSK, Step Functions, ElastiCache), Azure (Data Factory, Synapse), GCP (BigQuery, Dataflow)

Big Data & Streaming: Apache Spark, Hadoop, Kafka, Kinesis Data Streams, Flink, Airflow, Databricks, Snowflake, Delta Lake

Programming Languages: Python, SQL, Scala, Java, Shell/Bash

Data Engineering Skills: ETL/ELT pipeline design, Data Modeling, Data Warehousing, Data Lakehouse, Data Quality Frameworks, Streaming Data Processing, Infrastructure as Code (Terraform, CloudFormation)

Databases: PostgreSQL, MySQL, MongoDB, Redis, Cassandra

Data Tools & DevOps: dbt, Tableau, Power BI, Jupyter, Docker, Kubernetes, Git, Jenkins, Datadog

Certifications: AWS Certified Data Engineer – Associate | AWS Certified Developer – Associate | AWS Certified Cloud Practitioner | Tableau Certified Data Analyst | MongoDB Certified Developer Associate | Microsoft Certified: Azure Fundamentals (AZ-900) | Microsoft 365 Certified: Fundamentals (MS-900)

Key Projects

AWS-Based Real-Time Data Pipeline - Innwise Solutions Inc

- Built and deployed a real-time streaming pipeline processing over 1M events/hour using AWS Kinesis and Apache Kafka
- Integrated data validation, schema registry, and alerting to achieve 99.9% SLA compliance for critical pipelines
- Designed cost-optimized data lake architecture on S3 with Glue Catalog and lifecycle policies
- **Technologies:** AWS (Kinesis, Lambda, S3, Glue, EMR), Kafka, Python, SQL, Terraform

Customer 360 Lakehouse on AWS - Innwise Solutions Inc

- Built a Customer 360 solution integrating data from 15+ internal and external sources into a unified model
- Implemented Slowly Changing Dimensions (SCD Type 2) and dimensional modeling using dbt and Snowflake
- Automated data quality checks and incremental loads, reducing warehouse compute costs by 40%
- **Technologies:** Snowflake, AWS (S3, Lambda), dbt, Python, SQL, Apache Airflow

Metadata-Driven Data Quality Framework - Deloitte USI

- Engineered a reusable metadata-driven validation framework for 200+ tax datasets using Python and YAML-based configs.
- Decoupled validation logic from orchestration scripts for easier maintenance and scaling.
- Implemented **automated alerting, checkpointing, and reconciliation logs**, reducing pipeline errors by 70%.
- Created real-time monitoring dashboards in **Power BI** and automated email notifications for faster issue resolution.
- Applied prior process automation expertise to build a **scalable, domain-specific data quality solution**.

Professional Experience

Data Engineer – AWS Cloud and Big Data

Innowise Solutions – Leicester, UK

Mar 2023 – Present

- Engineered and deployed scalable real-time pipelines using **Apache Kafka**, **Spark Streaming**, and **AWS (Kinesis, S3, Glue)**, processing 100M+ transactions monthly and increasing throughput by 35%
- Automated ingestion, transformation, and loading workflows in **Python** and **SQL**, reducing manual intervention by 50% and accelerating analytics readiness by 40%
- Migrated legacy batch ETL to **AWS Lambda**, **EMR**, and **Terraform**-based IaC, lowering infrastructure costs by 40% and achieving 99.9% pipeline uptime
- Optimized **PostgreSQL RDS** queries and caching strategies with **Redis**, reducing query latency by 60%
- Partnered with data science teams to deliver **Tableau** dashboards and **Redshift**-powered reports, contributing to \$5M+ revenue growth
- Mentored and upskilled 2 junior engineers in AWS architecture, CI/CD, and database optimization, improving delivery speed by 30%

Tax Analyst – Data Automation and Reporting

Deloitte USI – Hyderabad, IN

Jan 2020 – Oct 2021

- Automated tax data preparation workflows using SQL and Excel VBA, reducing manual effort by 60% and improving report turnaround time by 50%.
- Developed Power BI dashboards for real-time tracking of tax liabilities across 30+ entities, cutting monthly reconciliation time by 45%, and built reusable Excel + SQL templates that increased report accuracy by 70%.
- Led large-scale tax data reconciliation using SQL queries and advanced Excel functions (INDEX/MATCH, pivot tables), ensuring 99.5%+ data accuracy for audit compliance.

Data Analyst – Machine Learning Data Quality

Amazon IN – Hyderabad, IN

July 2019 – Dec 2019

- Conducted high-volume data validation and annotation tasks on system-predicted visual inputs, ensuring 98%+ accuracy across automated map and object recognition workflows.
- Used internal tools and SQL queries to audit, correct, and escalate low-confidence predictions in ML training datasets, improving model precision by 15%.
- Collaborated with engineering teams to design rule-based checks and edge-case classification workflows, accelerating anomaly detection and feedback loops
- Documented operational logic and data QA standards to support cross-functional training, reducing onboarding time by 30% for new analysts.

Education

University of Bristol, MSc in Fintech with Data Science

Sept 2022 – Sept 2023

- Finance, technology, and analytics, including courses in Big Data Analytics, Machine Learning, Statistical Computing, Artificial Intelligence and Database Systems.
- **Dissertation:** Developed a scalable anomaly detection system for real-time IoT data streams, achieving 85% detection accuracy using streaming algorithms and time-series models
- Earned the prestigious **Bristol PLUS Award** for outstanding professional development.

Indian Institute of Management, Machine Learning and Artificial Intelligence

June 2021 – Feb 2022

- Developed an optimised data ingestion pipeline for heterogeneous IoT sensor data, improved processing.
- **Relevant Coursework:** Big Data Analytics, Machine Learning, Database Systems, Statistical Computing
- **Capstone Project:** Built a predictive maintenance system for industrial equipment using machine learning.