SHRADHA DUBEY

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Summary: Big Data Engineer with over 6 years of experience designing and optimizing scalable data solutions, including AWS cloud architecture and big data engineering. Expertise in AWS (S3, EMR, Glue), Pyspark, SQL, and Python, with a strong track record of building efficient ETL pipelines and reducing operational costs. Adept at real-time and batch data processing, improving system performance, and ensuring data integrity and governance across large-scale datasets. Passionate about driving innovation in big data architectures and enabling data-driven decision-making.

PROFESSIONAL EXPERIENCE

AWS Data Engineer, Melius Infotech, Hyderabad, India   Jan25-Current
- Designed and implemented scalable AWS cloud architectures, ensuring high availability, security, and cost efficiency.
- Developed automated ELT pipelines using AWS Glue, Lambda, and Redshift, optimizing data ingestion & transformation.
- Architected serverless data processing solutions leveraging AWS Step Functions and S3, reducing infrastructure overhead.
- Led cloud migration strategies, integrating AWS services like EC2 & DynamoDB for enhanced scalability and performance.
- Established IAM policies and security best practices, ensuring compliance with AWS security standards.

Big Data Engineer, Rocket Mortgage, Detroit, Michigan, United States   Jun21-Sept 24
- Built AWS-based data pipelines, reducing data processing time by 15%, enabling real-time insights across business units.
- Optimized data lake storage and query performance across data-lake through EMR & Glue, reducing storage costs by 20%.
- Built automated data workflows & ETL pipelines, integrating data from multiple sources into a centralized data lake.
- Developed data models and data marts to support reporting and analytics needs, improving query efficiency by 25%.
- Collaborated with cross-functional teams to implement data governance policies, ensuring data integrity and security.

Associate Big Data Engineer, Rocket Mortgage, Detroit, Michigan, United States   Dec19-Jun 21
- Led migration of legacy data systems to AWS, improving system scalability and reducing operational downtime by 10%.
- Integrated deployments for CICD pipelines that helped in faster deployment of IAC and facilitated rapid testing.
- Developed & optimized ETL processes for large-scale data transformations, enabling business insights from TBs of datasets.
- Worked with Spark & Hadoop ecosystems for distributed data processing, achieving a 20% improvement in processing.
- Streamlined data ingestion pipelines by introducing automation that reduced manual intervention by 30%.
- Executed data-profiling systems to identify data inconsistencies across systems, improving data accuracy and reliability.

Data Analyst Intern, Quicken Loans, Detroit, Michigan, United States   Jun19-Dec 19
- Performed detailed data-analysis on large datasets, producing actionable insights that drove a 10% decrease in operation cost.
- Created interactive dashboards using Tableau, automating reporting processes and reducing report generation time by 25%.
- Developed custom SQL queries to analyze & retrieve data from relational databases, optimizing query performance by 15%.
- Implemented ad-hoc reporting solutions to address urgent business needs, providing real-time insights to stakeholders.
- Partnered with business units to identify key performance indicators (KPIs) and built visualizations to track progress, leading to data-driven decision-making.

SKILLS

- **Big Data & ETL:** Data Pipelines, Data Modeling, Real-Time Streaming, Data Governance, Python, SQL, Scala, HQL
- **Cloud Technologies: AWS (**S3, EC2, EMR, Glue Catalog, Redshift Lambda, SNS, KMS, IAM, and CloudWatch**)**
- **Big Data Tools:** Apache Hadoop, Spark, Hive, Kafka, Nifi, Oozie, Zeppelin
- **Visualization:** Tableau, Power BI, Google Analytics, Adobe Analytics
- **Documentation:** GitHub, SharePoint, Confluence, TFS
- **Cross-functional Collaboration:** Stakeholder Management, Performance Optimization, Agile & DevOps Methodologies

EDUCATION

MS in Information Management & Data Science, Syracuse University, Syracuse, New York, USA (GPA:3.56)
Relevant Coursework: Data Analytics, Data Mining, Data Modeling, Database Management, Information Visualization

PG Diploma in Computer Application, DAVV**,** Indore, India (GPA: 3.50)
Relevant Coursework: System Analysis & Design, Web Designing, Internet & E-Commerce, HTML, CSS, C#, C++

CERTIFICATION

AWS Solution Architect Associate (SAA-02)
AWS Cloud Practitioner (CLF-C01)
Certification of Advance Studies in Data Science