

SHRADHA DUBEY

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Summary: Data Engineer with over 6 years of experience in building high-performance data pipelines and architecting large-scale data solutions. Proficient in leveraging cloud platforms (AWS S3, Lambda, Glue, Redshift, Athena, Snowflake), SQL, and Python to deliver data-driven insights and optimize infrastructure. Proven success in reducing operational costs by 30% through efficient ETL and partitioning strategies. Skilled in real-time and batch processing, driving innovation in data engineering solutions

PROFESSIONAL EXPERIENCE

Big Data Engineer, Rocket Mortgage, Detroit, Michigan, USA

Jun21-Sept 24

- Built AWS-based data pipelines, reducing data processing time by 15%, enabling real-time insights across business units.
- Optimized data 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, Quicken Loans, Michigan, USA

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, Michigan, USA

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.

ACADEMIC PROJECTS

Data Visualization, YouTube Video Dataset (Viz-a-thon)

- Optimized the dataset for analysis, extracting insights within a 3-hour window while ensuring data accuracy and efficiency.
- Collaborated with the team to split the work on different platforms like MS Excel, R-Studio, and Adobe Illustrator.
- Produced a conclusive analysis in a PDF, showcasing views, peak view times, & session durations categorized by country.
- Presented findings & recommendations to stakeholders, aiding content-creation strategies to boost audience engagement.

SKILLS

- Data Engineering:** ETL Processes, Data Pipelines, Data Modeling, EDA (Exploratory Data Analysis)
- Scripting:** Python, Scala, HQL, SQL, HTML, CSS, C#, C++.
- AWS Services:** S3, EC2, EMR, Glue Catalog, Crawler, Lambda, SNS, KMS, IAM, and CloudWatch
- Apache:** Hadoop, Hive, Spark, Kafka, Nifi, Oozie, Zeppelin.
- Other:** MySQL Server, MS Excel, Attunity, Tableau, Power Bi, Google Analytics, and Adobe Analytics.
- Communication:** GitHub, SharePoint, Azure Task Boards TFS, Confluence, Technical Documentation, Collaboration.

EDUCATION

MS in Information Management & Data Science, Syracuse University, Syracuse, New York, USA (GPA:3.56)

Coursework: *Data Analytics, Data Modeling, Data Mining, Database Management, Info Visualization, Project Management*

PG Diploma in Computer Application, DAVV, Indore, India (GPA: 3.50)

Coursework: *System Analysis and Design, Visual Basics, Web Designing, Internet and 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