

SAI RAGHAVENDRA MUPPAVARAM

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PROFESSIONAL EXPERIENCE

DELOITTE USI.

Hyderabad, IN

Consultant

2024-Present

- Designed, developed, and optimized ETL pipelines using PySpark, AWS Glue, and SQL, processing datasets from 10GB to 1TB across multiple sources and targets.
- Optimized SQL queries, reducing execution time by 30% during data platform modernization
- Implemented EHC toggle for Aurora and Multi region replication for s3.
- Resolved Spark join skew issues in large datasets using salting and adaptive query execution, improving job speed by 80%
- Led the validation of 180 million + records from DB2 to Aurora, ensuring data integrity and accuracy through comprehensive post-load validation
- Solved small file issue in S3-based Spark pipeline by implementing data coalescing and write optimizations for Parquet
- Developed and deployed a client merge Lambda function that processes messages from SQS, efficiently forwarding them to an API for seamless data integration

CAPGEMINI

Hyderabad, IN

Associate Consultant

2021-2024

- Managed pipelines with AWS Glue, S3, and ElasticSearch to enrich medical device data, boosting reliability and reducing manual processing by 40%
- Spearheaded AIR Recon DL enrichment, improving MRI image quality by 25% and reducing scan times by 30%, which enhanced patient throughput
- Automated data transformation and loading using AWS Glue and Lambda, reducing operational overhead and enhancing data quality by 20%
- Implemented data quality checks, increasing data accuracy by 15%, which improved downstream analytics reliability
- Resolved Spark driver OOM errors by refactoring aggregations to use mapPartitions and reduce instead of .collect_list() and .count(), enabling safe processing of large datasets

EDUCATION

CMR ENGINEERING COLLEGE

Hyderabad, IN

Bachelor of Technology, Computer Science

ADDITIONAL INFORMATION

- Technical Skills: Python, Java, Javascript, SQL, AWS, PySpark, RedShift, Qlik, Linux Jupyter Notebook, Apache Airflow, Pandas
- Languages: Fluent in Telugu (native), English; Conversational Proficiency in Hindi
- Certifications: [Python\(Basic,HackerRank\)](#)
- Awards: Deloitte Applause Award – for ownership and coordination in Data Lake delivery