

PHANEENDHRA KATAKAM

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SUMMARY

Data Engineer with 4 years of experience designing and implementing scalable data pipelines, optimizing ETL processes, and managing large datasets in cloud environments. Proficient in Python, SQL, and big data technologies like Spark and Hadoop, with a proven ability to deliver actionable insights through data integration and analytics. Adept at collaborating with cross-functional teams to solve complex business challenges and drive data-driven decision-making.

TECHNICAL SKILLS

Programming: Python, R, Scala, Java, SQL, Bash.

Database: MySQL, PostgreSQL, Snowflake, SQL Server, Oracle, DBA, Db2, MongoDB, HBase, DynamoDB.

Big data Tools: HDFS, Hive, Delta Lake, Databricks, Amazon EMR, Spark, Hadoop, Airflow, Kafka, Snowflake.

ETL Tools: Talend, Informatica, Apache NiFi, Alteryx.

Cloud: AWS (S3, Glue, Redshift, Lambda), Google Cloud Platform (BigQuery, Dataflow), Azure (Data Factory)

Visualization Tools: Tableau, Power BI, QlikView, AWS QuickSight, Matplotlib.

CI/CD and Data Modeling: Docker, Kubernetes, Jenkins, Terraform, Github, Snowflake Schema, Data Vault

EXPERIENCE

Data Engineer	Walgreens, Missouri	May 2024 – Present
<ul style="list-style-type: none">Optimized ETL processes with Java for application development and process automation, achieving a significant reduction in data processing time.Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, and Auto Scaling Groups, optimizing volumes and EC2 instances.Developed streaming and batch processing applications using PySpark to ingest data from various sources into HDFS Data Lake.Developed DDL and DML scripts in SQL and HQL for analytics applications in RDBMS and Hive.		
Junior Data Engineer	Discover Financial, Illinois	Jan 2024 – April 2024
<ul style="list-style-type: none">Collaborated closely with senior engineering staff to create essential ETL frameworks using Python scripts combined with optimized SQL queries that collectively processed approximately 500K transactions weekly for internal analytics initiatives.Automated data extraction and transformation tasks, improving data loading efficiency by 25% for internal reporting purposes.Contributed to the maintenance of a PostgreSQL data warehouse by writing SQL queries to clean and aggregate customer and transaction data.Designed and implemented data validation scripts in Python, ensuring accuracy and completeness in datasets used for business intelligence reporting.		
Associate Data Engineer	Saint Louis University, Missouri	Oct 2022 – Nov 2023
<ul style="list-style-type: none">Developed and maintained scalable ETL pipelines using AWS Glue and Python, ensuring efficient and reliable data extraction, transformation, and loadingWorked closely with cross-functional teams to design user interfaces and business applications, ensuring that database specifications and requirements were met for seamless integration and performance.Delivered training sessions on data engineering practices and maintained detailed documentation for team workflows.Optimized large-scale data processing tasks by implementing partitioning and indexing strategies in cloud-based databases, reducing query execution time by 40%.		
Software Engineer	Value Momentum Pvt Ltd, India	Dec 2019 – Feb 2022
<ul style="list-style-type: none">Centralized data warehouse using SQL ensuring seamless and efficient data flow across departments.Improved data transformation and loading times by optimizing SQL queries and fine-tuning data pipelines, reducing overall processing time by 30%.Worked closely with cross-functional teams to migrate legacy data systems to cloud platforms like AWS and Azure, ensuring smooth integration and real-time data availability.Implemented robust data governance practices, including automated validation checks and monitoring workflows, enhancing data quality and compliance across projects.		

EDUCATION

Saint Louis University, Saint Louis, MO	May 2024
Master of Science in Information Systems	
Vaagdevi Engineering College, India	Sep 2019
Bachelor of Technology in Electronics and Communication Engineering	