PHANEENDHRA KATAKAM

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TECHNICAL SKILLS

Programming: Python, R, Scala, Java, SQL, Pyspark, GitHub Copilot, 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.
Certifications: Wells Fargo - Data Modeling, Databricks

EXPERIENCE

Data Engineer **Walgreens, Missouri** **May 2024 – Present**

- Designed and analyzed ETL pipelines using python, reducing data processing time by 30% and enhancing application performance.
- Deployed scalable AWS cloud solutions leveraging EC2, S3, RDS, EBS, Elastic Load Balancer, and Auto Scaling Groups, improving system reliability by 50% and reducing operational costs by 20%.
- Built batch and real-time data processing applications using PySpark, enabling seamless ingestion of multi-source data into HDFS Data Lake, accelerating data availability by 40%.
- Created and maintained DDL/DML scripts in SQL and HiveQL to support analytics applications across RDBMS and Hive, resulting in a 25% increase in query performance.
- Led a team of 5 data engineers in the development of a data integration platform, reducing data latency by 35% and improving data consistency across departments.

Junior Data Engineer **Discover Financial, Illinois** **Jan 2024 – April 2024**

- Developed ETL frameworks using Python and optimized SQL queries, processing over 500K weekly transactions for internal analytics and reporting, enhancing data processing efficiency by 30%.
- Automated data extraction and transformation workflows, increasing data loading efficiency by 25% and reducing manual intervention.
- Maintained and optimized a PostgreSQL data warehouse by writing complex SQL queries to clean, aggregate, and analyze customer and transaction data, improving reporting accuracy by 20%.
- Designed data validation scripts in Python, ensuring 99.9% data accuracy for business intelligence and reporting purposes, reducing data errors by 15%.

Associate Data Engineer **Saint Louis University, Missouri** **Oct 2022 – Nov 2023**

- Built and managed scalable ETL pipelines using AWS Glue and Python, ensuring reliable data extraction, transformation, and loading processes, reducing data integration time by 30%.
- Collaborated with cross-functional teams to design database schemas and user interfaces, ensuring seamless integration and optimal performance, increasing user satisfaction by 25%.
- Conducted training sessions on data engineering best practices for over 20 team members, and maintained comprehensive documentation for team workflows and processes, improving team productivity by 15%.
- Optimized large-scale data processing by implementing partitioning and indexing strategies, reducing query execution time by 40% and enabling faster data retrieval.

Software Engineer **Value Momentum Pvt Ltd, India** **Dec 2019 – Feb 2022**

- Centralized enterprise data into a unified data warehouse using SQL, improving data accessibility and flow across departments, resulting in a 30% improvement in decision-making processes.
- Enhanced data transformation and loading efficiency by optimizing SQL queries and fine-tuning pipelines, reducing processing time by 30%.
- Led the migration of legacy data systems to AWS and Azure, ensuring real-time data availability and seamless integration, reducing system downtime by 40%.
- Established data governance frameworks, including automated validation checks and monitoring workflows, to ensure data quality and compliance, increasing data accuracy by 20%.

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