AKHILESH SANTOSH JADHAV

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PROFESSIONAL SUMMARY

An Experienced Data Engineer with over 3.5+ years of expertise in designing scalable data solutions using AWS, Azure, and Big Data tools. Skilled in ETL/ELT pipeline development, cloud deployment, data modeling, and ensuring compliance GDPR, HIPAA. Proven track record of optimizing performance, enhancing data reliability, and delivering insights through platforms like Power BI and Tableau.

WORK EXPERIENCE

PTC   **Boston, MA**
Data Engineer   Jul 2023 - Current

- Designed and maintained scalable ETL/ELT pipelines using AWS, Azure, and Spring Boot, enabling real-time and batch data processing, improving data availability and reducing infrastructure costs by 25%.
- Integrated and optimized data from various sources IoT, ERP, CRM into unified platforms, leveraging MySQL, PostgreSQL, and MongoDB to enhance data consistency and reduce query response times by 40%.
- Developed and implemented efficient data models using Spring Boot and Kubernetes, improving data reliability and accessibility across software applications within an agile development environment.
- Deployed cloud-native solutions on AWS and Azure, automating deployments through Jenkins to achieve 99.9% uptime and minimize manual intervention, enhancing system reliability.
- Collaborated with cross-functional teams, including software developers and data scientists, ensuring seamless integration of data solutions into products and improving team efficiency in a fast-paced agile setup.
- Implemented comprehensive data security measures and compliance protocols GDPR, HIPAA, safeguarding sensitive information and reducing risk exposure by 15%.

Sigma Infosolutions Ltd.   **Bengaluru, IN**
Data Engineer   Jun 2020 - Jul 2022

- Utilized Apache Spark and Hadoop for large-scale data processing, enhancing data flow efficiency and reducing processing time by 30%, while implementing Python scripts for data validation and transformation across MySQL, PostgreSQL, and MongoDB databases.
- Managed data storage on AWS S3, Redshift and Azure Synapse, optimizing performance and scalability, while ensuring compliance with HIPAA and GDPR standards.
- Implemented Docker and Kubernetes for containerization and orchestration, improving deployment efficiency by 25% and streamlining resource management in cloud environments.
- Integrated Apache Kafka for real-time monitoring and analytics, and designed batch and real-time data processing frameworks using Apache Spark to enhance processing capabilities.
- Developed efficient data models and schemas for both relational MySQL, PostgreSQL and NoSQL MongoDB databases, improving retrieval efficiency by 40% and supporting seamless data integration.
- Established data quality checks and governance practices, reducing inconsistencies by 50% through automated monitoring and validation using Python scripts in AWS and Azure environments.
- Oversaw cloud-based data warehouses Redshift, Azure Synapse for storing operational and historical data, facilitating real-time business intelligence and reporting.
- Created custom dashboards and reports using Power BI and Tableau, providing stakeholders with actionable insights and real-time visualizations for data-driven decision-making.

TECHNICAL SKILLS

Programming Languages: Python, R, Scala, SQL, Unix Shell Script, C
Big Data Technologies: Hadoop, HDFS, Yarn, Sqoop, Oozie, Hive, HBase, Spark, Kafka, Nifi, Cassandra, Apache Airflow, Databricks
Databases: MySQL, SQL Server, Snowflake, PostgreSQL, MongoDB, Cassandra
Cloud Computing: AWS (S3, CloudWatch, RedShift, EMR, EC2, DynamoDB), Azure (Data Factory, Blob Storage, Databricks)
Data Analytics: Data Cleaning, Data Masking, Data Manipulation, Data Visualization
Reporting Platforms: SSRS, Tableau, Microsoft Power BI, Sigma Computing, Metabase
File Formats: Parquet, Avro, ORC, JSON
ETL/ELT Tools: SSIS, SSAS, Informatica, Matillion, Azure Data Factory, DBT
Operating Systems: Windows, Linux, Unix, MacOS

EDUCATION

Syracuse University   **New York, NY**
Master of Science in Computer Science   May 2024

Vishwakarma Institute of Technology   **Pune, IN**
Bachelor of Technology in Computer Engineering   Jun 2022