Data Engineer
Ravali Perala

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Summary

Highly motivated and results-oriented Data Engineer with 4+ years of experience in designing, building, and maintaining robust data pipelines and infrastructure. Proven ability to transform complex data into actionable insights, driving data-driven decision-making and business growth.

Experience:

Cigna health care, Jan 2023- March 2024

Data Engineer

- Designed and implemented a scalable data warehouse using AWS Redshift to integrate diverse healthcare insurance data sources (e.g., claims data, eligibility data, provider data), resulting in a 30% improvement in query performance and enabling faster, data-driven decision-making for claims processing, fraud detection, and risk adjustment.
- Developed and maintained robust ETL pipelines using Apache Airflow to ingest, transform, and load healthcare insurance claims data from various sources ensuring timely and accurate data delivery for claims adjudication.
- Collaborated with actuaries, underwriters, and other stakeholders to gather and translate complex healthcare insurance data requirements into efficient data models, ensuring data integrity, privacy, and compliance with regulatory requirements.
- Implemented comprehensive data quality checks and monitoring processes to ensure the accuracy, reliability, and validity of insurance data used for critical applications such as claims processing, risk adjustment, premium calculation, and fraud detection.

- **Technologies:** AWS (Redshift, S3, Glue, Lambda), Apache Airflow, SQL, Python

CVS, Aug 2021- Dec 2022

Data Engineer

- Implemented robust data integration and management strategies to handle the diverse data landscape at CVS, including prescription, inventory, and customer data, ensuring data quality and accessibility for various business functions.
- Leveraged Azure Databricks to build scalable and cost-effective data solutions, enabling efficient data storage, processing, and analysis while ensuring data security and compliance.
- Utilized strong SQL skills and Tableau to derive actionable insights from client data, generating reports and visualizations to support business decisions related to inventory management, pricing strategies, and customer behavior.

- o Collaborated effectively with cross-functional teams at CVS, including pharmacists, analysts, and business stakeholders, to gather data requirements, translate them into technical solutions, and ensure the successful implementation of data-driven initiatives.

- **Technologies:** Azure (Databricks, Data Factory), Tableau, SQL, Python

Amazon, Aug 2017-Dec 2019

- **ML Data Associate**

  - o Contributed to the improvement of Alexa's core AI capabilities by creating, curating, and analyzing data for testing and training speech recognition and natural language understanding models.
  - o Worked on data-driven initiatives to enhance Alexa's overall efficiency, resulting in a more seamless and satisfying user experience.
  - o Developed insightful data visualizations and executive-level dashboards to monitor key performance indicators and support data-driven decision-making for the development team.
  - o Performed thorough research and analysis of Alexa usage data to identify trends, patterns, and areas for improvement, contributing to data-backed strategic planning.
  - o Proactively monitored and optimized data processes to ensure high data quality, accuracy, and efficiency across Alexa-enabled devices.

Technologies: Amazon Kinesis Data Streams, Amazon SageMaker, Microsoft Excel – Pivot tables, Tableau.

Technical Skills

- **Cloud Platforms:** AWS, Azure
- **Data Processing:** Apache Spark, Apache Airflow, Hadoop
- **Data Warehousing:** Redshift, Cassandra, Hive
- **Data Streaming:** Apache Kafka
- **Programming Languages:** Python, SQL, Java, C++
- **Data Visualization:** Tableau
- **Other:** Machine Learning, Data Modeling, ETL, Linux
- **Version control:** GitHub, Git, Jenkins

Education

New York Institute of Technology, New York, NY   May 2021

 Master of Science

Kakatiya Institute of Technology and Sciences, Warangal   May 2018

Bachelor of Engineering in Computer and Science