

VAMSHIDHAR CHIGULLAPALLI

DATA ENGINEER

Texas, USA | (551) 888-0784 | chigullapallivamshidhar@gmail.com

SUMMARY

- Results-driven Data Engineer with a strong background in designing, developing, and optimizing end-to-end data pipelines for integrating cloud-based and on-premise enterprise systems. Adept at leveraging SnapLogic, Salesforce, and SAP to streamline and automate data workflows, ensuring seamless data synchronization between critical business platforms.
- Expert in ETL optimization, improving data extraction times, and implementing robust data transformation processes to maintain high-quality, reliable data flow across real-time and batch processing pipelines. Skilled in working with RESTful and SOAP APIs, facilitating efficient data integration and automation between Salesforce CRM, SAP ERP, and cloud-based storage solutions like AWS S3.
- Proficient in data modeling, validation, and transformation, ensuring data consistency and accuracy across business units. Experienced in optimizing data pipeline performance, reducing processing times, and enhancing reporting and analytics for better decision-making. Demonstrated expertise in error handling, data governance, and compliance (GDPR, PCI-DSS), maintaining data integrity and security across enterprise systems.
- Strong analytical background with expertise in predictive modeling, fraud detection, and dashboarding, leveraging Python, SQL, and machine learning frameworks (TensorFlow, scikit-learn) to develop fraud detection models, customer churn analysis, and financial risk assessments. Experienced in building interactive dashboards using Power BI and Tableau to deliver actionable insights, automate reporting, and enhance business intelligence capabilities.
- Proven ability to mentor junior engineers, conduct code reviews, and collaborate with cross-functional teams to ensure the successful deployment of data-driven solutions. A strategic thinker with a passion for using data engineering and analytics to drive business transformation and innovation in enterprise environments.

SKILLS

Data Integration &

ETL Tools: SnapLogic, Apache NiFi, Talend

CRM & ERP Systems: Salesforce, SAP

Methodologies: SDLC, Agile, Waterfall

Languages: Python(Pandas, Numpy), SQL

Visualization Tools: Power BI, Tableau, Advanced Excel (Pivot Tables, VLOOKUP)

Databases: MySQL, PostgreSQL

Cloud Technologies: AWS, SnapLogic AWS Connector

APIs: RESTful, SOAP, Salesforce APIs, SAP BAPIs

Version control &

CI/CD Tools: Git, Github, Jenkins, AWS Lambda

EXPERIENCE

Data Engineer | Cigna, TX

Aug 2023 – Present

- Led the design and development of end-to-end data pipelines to automate the integration of Salesforce and SAP systems into Cigna's enterprise data warehouse.
- Utilized SnapLogic to build and manage scalable and reusable pipelines, connecting cloud-based Salesforce CRM and on-premise SAP ERP systems, ensuring seamless and efficient data flow.
- Collaborated with cross-functional teams, including business analysts and IT stakeholders, to gather integration requirements and design optimized data models for syncing CRM and ERP data.
- Developed complex data transformation and validation processes using SnapLogic's built-in transformation components, ensuring data accuracy, consistency, and integrity throughout the integration lifecycle.
- Worked with both RESTful and SOAP-based APIs to fetch and push data between Salesforce and SAP, ensuring smooth and reliable data synchronization between systems.
- Optimized existing ETL processes, resulting in a 30% improvement in data extraction times, facilitating faster decision-making and enhanced reporting capabilities within Cigna's business units.
- Utilized SnapLogic's Snap patterns and custom Python scripts to handle high volumes of data, automate routine data tasks, and improve pipeline efficiency.
- Built and maintained real-time and batch data pipelines, ensuring high availability, minimal downtime, and the timely delivery of critical data to downstream systems.

- Employed AWS S3 for secure and scalable data storage, and leveraged SnapLogic's AWS connectors to facilitate seamless data transfers between Salesforce, SAP, and the cloud.
- Coordinated closely with the Data Warehouse team to ensure integrated data met Cigna's storage, analytical, and reporting requirements.
- Managed pipeline execution schedules and implemented comprehensive error-handling procedures to guarantee the timely delivery of data to downstream applications.
- Conducted regular code reviews and optimization sessions, ensuring high performance and reliability in data processing pipelines.
- Provided ongoing training to junior data engineers on SnapLogic best practices, and resolved technical challenges related to data integration and pipeline management.

Data Analyst | Deloitte, India

Aug 2019 – Dec 2022

- Wrote Python scripts using pandas and NumPy to clean and preprocess over 1 million daily customer loan applications, improving data quality by 25%.
- Executed complex SQL queries to extract and transform loan, repayment, and financial data from PostgreSQL and MySQL, optimizing ETL processes by 20%.
- Developed a deep learning model using TensorFlow for real-time fraud detection with 95% precision, reducing false positives.
- Built and fine-tuned predictive models for customer churn analysis using scikit-learn, achieving an 85% accuracy rate and driving retention strategies.
- Designed and implemented interactive Power BI dashboards to monitor KPIs across departments, reducing manual reporting by 25%.
- Conducted exploratory data analysis (EDA) on customer transaction data, identifying trends, correlations, and anomalies.
- Performed feature engineering by deriving new features and encoding categorical variables to enhance model performance.
- Collaborated with stakeholders to gather requirements for predictive modeling and data analysis, ensuring alignment with business needs.
- Integrated real-time fraud detection models into production systems, collaborating with IT teams for deployment and performance monitoring.
- Ensured compliance with data governance standards, including GDPR and PCI-DSS, by implementing regular data quality audits and security measures.
- Automated financial reporting processes using VBA macros in Excel, reducing manual effort by 50% and increasing reporting accuracy.
- Applied statistical analysis techniques to identify fraud patterns and customer behavior, improving decision-making capabilities.
- Developed and maintained comprehensive documentation for data processes, ensuring transparency and clarity in model development and reporting.
- Collaborated with cross-functional teams to optimize data pipelines and ensure seamless integration between systems (e.g., CRM and ERP).
- Regularly updated stakeholders with progress reports, insights from data analysis, and recommendations to improve business operations.

EDUCATION

Master of Science in Data Science - University of North Texas, Denton, Texas, USA

Bachelor of Technology in Electronics & Instrumentation Engineering - Amrita School of Engineering, India