

Vamsi Krishna Reddy Siddamreddy

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PROFESSIONAL SUMMARY

Detail-oriented Data Analyst with 4+ years of experience interpreting complex data, building dashboards, and supporting decision-making. Skilled in SQL, Python, and BI tools to uncover trends and boost performance. Certified **Tableau Desktop Specialist** and **AWS Cloud Practitioner**, with expertise in data cleansing, modeling, and visualization across cloud and on-prem environments. Strong collaborator with a track record of turning raw data into actionable insights.

TECHNICAL EXPERIENCE

Data Analyst (GRA) | Oklahoma State University Aug '23 – May '25

- Analyzed academic and HR data to identify key performance indicators, providing strategic insights to stakeholders.
- Built ETL workflows using **SQL** and **Python**, boosting data availability and cutting errors by 25%.
- Integrated datasets into **Tableau** via scheduled pipelines, ensuring real-time dashboard accuracy for institutional KPIs.
- Implemented data validation and transformation logic, increasing pipeline reliability by 30% and reducing schema-related errors by 40%.

ETL Analyst| Tata Consultancy Services | Client: Centrica Hive Home Sept '21 – July '23

- Developed over 50 data pipelines using **AWS Glue**, transforming structured/unstructured data from **S3** to **Redshift**.
- Automated ingestion of 1TB+ weekly **Salesforce extracts** using **Jenkins**, cutting refresh delays by 35%.
- Wrote and optimized complex **SQL stored procedures** for reporting layers and fact/dimension models.
- Implemented custom monitoring scripts in **Python**, achieving 100% job up time and error logging.
- Coordinated closely with BI teams to align ETL outputs with business logic and SLA requirements.

Programmer Data Analyst | Cognizant Technology Solutions | Client : Nestlé Nov '20 – Sept '21

- Processed and analyzed **sales and marketing** datasets for 2M+ customer records using **Python** and **SQL**.
- Built **data ingestion** and **aggregation pipelines**, ensuring accurate and timely data delivery.
- Supported job scheduling, error handling, and post-load validations as part of the ETL operations team.
- Developed reports and source-to-target mapping documents to support business reviews and audits.

SKILLS

Programming & Querying	: Python (Pandas, NumPy), SQL, Bash, Excel
Visualization	: Tableau, Power BI
Cloud & Tools	: AWS (S3, Redshift, Glue), Jenkins, Lambda, SageMaker
Databases	: SQL Server, MySQL, MongoDB, DynamoDB
Workflow Automation	: Jenkins, Git, Jira, KNIME
Data Modeling	: ETL/ELT pipelines, Data Modeling (Star Schema, 3NF)
Statistical Methods	: Descriptive Analytics, Predictive Modeling, SMOTE, Feature Engineering

EDUCATION

MS in Management Information Systems | Oklahoma State University 05/25

- Key Courses: Data Warehousing, Descriptive & Predictive Analytics, Programming for Data Science

PROJECTS

Traffic Accidents Data Analytics System | Python, SQL Server, MongoDB [GitHub](#)

- Engineered end-to-end pipeline for **700K+** UK road accident records across **OLTP**, **OLAP**, and **NoSQL** layers.
- Automated data extraction, transformation, and loading with **Python** and **SQL stored procedures**.
- Created reporting-ready views and summary tables for consumption by visualization tools.

Accident Severity Prediction Pipeline | KNIME, Python, SQL [GitHub](#)

- Integrated **95K+ records** from **4 CRSS relational tables** into a unified dataset (~38K records) using **modular KNIME workflows**, reducing noise and improving data quality.
- Engineered **30+ features** (e.g., vehicle age, overspeed indicators, collision flags) and applied **SMOTE** to balance class ratio (3:1), improving minority-class recall by **20%**.
- Automated the full **ETL pipeline** with reusable nodes for **data ingestion**, **transformation**, and **feature engineering**, achieving **100% workflow reproducibility**.