

SANDEEP REDDY RANGAREDDY

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SUMMARY

Analytics Engineer with a Master's in Information Systems and 4+ years of experience building data pipelines and transforming raw data into reliable, analysis-ready models using SQL, Python, Azure, and Snowflake.

WORK EXPERIENCE

Middle Tennessee State University

Research Analyst - Department of Political & Global Affairs

Aug 2025 - Present

Murfreesboro, TN

- Automated data extraction and transformation workflows using Python and SQL, creating a repeatable ETL pipeline that reduced manual work by 80% and accelerated data delivery by 3x.
- Modeled and organized 100K+ research records into clean, structured tables to support network and statistical analysis, improving data reliability and analysis turnaround time by 40%.

Middle Tennessee State University

Graduate Assistant

Sep 2023 - May 2025

Murfreesboro, TN

- Built and managed ETL workflows to extract data from databases, Excel spreadsheets, and websites, transformed and consolidated it in a centralized Access database, and reloaded the cleaned data into Qualtrics for targeted quizzes and surveys.
- Created Power BI dashboards to track quiz participation, student engagement, and response trends, leading to a 20% increase in student responses and a 15% rise in alumni engagement within one semester.
- Assisted faculty in the Information Systems Department by guiding students through topics such as regression, probability, and hypothesis testing, strengthening overall understanding of analytical concepts.

Eduthrill India Pvt. Ltd. (Accolite Digital)

Technical Support Analyst – Data Operations

Sep 2022 - Aug 2023

Hyderabad, India

- Investigated and resolved over 500 platform and data-related issues, performing root-cause analysis on system errors, failed data loads, and reporting discrepancies to maintain data integrity and application uptime.
- Partnered with the analytics team to validate, clean, and analyze candidate performance data using SQL and Excel, ensuring accurate dashboards that supported talent-evaluation and engagement decisions.

Samayan Technologies Pvt. Ltd.

Technical Analyst Intern

Dec 2021 - Jul 2022

Hyderabad, India

- Collected, cleaned, and structured customer and delivery data using SQL and Excel, improving data quality and enabling faster lead analysis for the sales and operations teams.
- Designed and maintained performance dashboards that tracked product delivery speed and feedback trends, uncovering process bottlenecks and supporting a 10% improvement in turnaround time.

SKILLS

- Data Modeling & Transformation:** SQL, dbt, Star/Snowflake Schema Design
- Programming & Automation:** Python, Pandas, NumPy, ETL Development, Data Cleaning
- Data Visualization & Reporting:** Power BI, Tableau, Microsoft Excel, Pivot Tables, Power Query, DAX
- Cloud:** Azure Data Factory, Synapse, Snowflake
- Workflow & Version Control:** Airflow, Git, GitHub
- Soft Skills:** Communication, Problem Solving, Stakeholder Engagement, Team Collaboration

EDUCATION

Middle Tennessee State University Murfreesboro, TN

Master of Science, Information Systems

Aug 2023 - May 2025

- GPA:** 3.76/4.0
- Coursework:** Business Analytics, Big Data for Analytics, Business Intelligence, Database Design and Management, Data Mining and Predictive Analysis

PROJECTS

Modern Data Warehouse & Analytics Pipeline

- Designed an end-to-end data pipeline using Azure Data Factory to ingest raw CSV and database data into Azure Synapse.
- Modeled data into star-schema structures across bronze, silver, and gold layers using dbt and SQL, and visualized key metrics in Power BI dashboards.

HR Analytics Dashboard

- Designed an interactive HR dashboard in Tableau to visualize hiring trends, turnover, and demographics by integrating and cleaning data in Excel prior to visualization.
- Developed calculated fields and KPIs (attrition rate, department growth, and diversity ratio) to highlight workforce insights for leadership decision-making.

Marketing Campaign Analytics Pipeline

- Automated data ingestion from multiple marketing sources using Python and orchestrated workflows with Airflow to load and model data in Snowflake.
- Designed dbt transformations and validation tests for campaign-level metrics, visualized insights in Power BI dashboards tracking ROI and conversions.