

Venkata Rathna Nishanth Dangethi

Data Analyst

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SUMMARY

- Possesses over **3+ years** of experience, specializing in Business/Data Analysis, ETL Development, and Data Modeling.
- Strong background in business and data analysis, including data profiling, data migration, and data integration.
- Utilized both business and technical expertise along with analytics skills to develop functional specifications focusing on analytics, operational efficiency, customer master data elements, and organizational support models.
- Demonstrated extensive understanding and experience with the entire Software Development Life Cycle (SDLC) including Agile and Waterfall methodologies, and project management skills.
- Worked collaboratively with various business and technical stakeholders to identify and implement new and improved designs and process changes aligning with business strategies and priorities.
- Gained hands-on experience in provisioning virtual clusters in AWS cloud environments using services like EC2, S3, and EMR.
- Proficient in data visualization tools such as Power BI, Tableau, Python Matplotlib, and AWS QuickSight creating powerful and actionable interactive reports and dashboards.
- Expertise in advanced MS Excel, PowerPoint, and spreadsheets (Pivot Tables & Pivot Charts, Macros, VLOOKUP).
- Played a key role in designing and structuring UAT and production functions and environments. Focused on formalizing, streamlining, and enhancing newly implemented processes and applications.
- Specialized in creating business process models and workflows. Adept at eliciting and analyzing Business Requirements Documents (BRD) and functional specifications for business process owners and stakeholders in leading financial institutions.

WORK EXPERIENCE

Epsilon, NC

Jul 2023 - Current

Data Analyst

- Collaborated with data engineers and operation team to implement ETL process, wrote and optimized SQL queries to perform data extraction to fit the analytical requirements.
- Performed data imputation using the scikit-learn package in Python.
- Skilled in leveraging AWS, to optimize data operations, processing, and analytics, contributing to a 20% improvement in operational efficiency across diverse projects and operational tasks.
- Proficient in AWS infrastructure services, including EC2, S3, Lambda, Redshift, and QuickSight. These skills have collectively contributed to a 20% improvement in data processing efficiency, cost reduction, process automation, faster analytics, and data-driven decision-making.
- Generated comprehensive analytical reports by running SQL queries against databases to conduct data analysis.
- Participated in feature engineering such as feature intersection generating, feature normalization, and label encoding with scikit-learn pre-processing.
- Responsible for ETL development with successful design, development, and integration of components within the Snowflake ETL Platform.
- Used Python (numpy, pandas, scikit-learn, seaborn) to develop a variety of models and algorithms for analytic purposes.
- Designed rich data visualizations to model data into human-readable form with Tableau and Matplotlib.
- Demonstrated proficiency in utilizing business intelligence tools encompassing data warehousing, reporting, querying, data mining, and spreadsheet applications.
- Participated in weekly and daily Scrum meetings with the LOB and Data Ops teams to discuss any issues and progress on work.
- Applied practical expertise in data modeling, involving dimensional data modeling, as well as physical and logical data modeling.

Infosys Ltd, India

Nov 2020 - Jul 2022

Data Analyst/ Systems Engineer

- Analyzed complex data sets using statistical and data analysis techniques to identify trends, patterns, and insights.
- Performed in-depth exploratory data analysis to uncover novel possibilities, and furnished suggestions for improving both operational effectiveness and overall business outcomes.
- Engaged in collaborative efforts with subject matter experts to comprehensively grasp business requirements, subsequently transforming them into actionable data analysis tasks.
- Utilized Snowflake to automate ETL workflows, and streamline the ingestion and transformation of billions of rows of data, significantly minimizing manual effort and improving operational efficiency by 70%.
- Used Tableau to create interactive and compelling visual representations of data which tracks 20+ KPIs.
- Conducted in-depth root cause analysis for production issues and successfully addressed over 300 defects. Utilized automated SQL queries to analyze logs, resulting in a notable enhancement of the team's issue resolution efficiency by

approximately 20%.

- Enhanced business operations by designing and implementing robust PL/SQL solutions for Procure-to-Pay (P2P) and Order-to-Cash (O2C) processes, optimizing data models, and improving system performance for seamless and efficient transaction processing.
- Collaborated with cross-functional teams to provide data-driven insights and support decision-making processes.

Adani, India

Sep 2019 - Oct 2020

Data Analyst

- Interpreted business users' data visualization requirements and crafted tailored visual representations for decision-making insights.
- Crafted SQL queries to extract relevant data from Sales data marts, ensuring accuracy and relevancy.
- Demonstrated proficiency in creating dynamic visualizations using Python libraries such as Pandas, NumPy, Matplotlib, and Scikit-learn.
- Created intuitive Power BI visualizations, including Scatter Plots, Geographic Maps, Pie Charts, Bar Charts, and Density Charts.
- Gained extensive experience in data analysis, warehousing, migration, cleaning, statistical modelling.
- Developed containment scripts for data reconciliation using SQL and Python to maintain data integrity.
- Specialized in Data Cleaning, and feature scaling using Pandas and NumPy in Python.
- Utilized Business Intelligence tools, including data warehousing, reporting and querying tools, Data mining, and advanced spreadsheets.
- Gained practical expertise in data modeling, encompassing both dimensional and logical aspects, and participated in the development of physical data models.
- Developed and executed both tactical and strategic solutions for corporate data warehousing.
- Examined various data types to derive insights about location relationships, statistical measurements, and conducted qualitative assessments using Python.
- Was responsible for defining key identifiers for each data mapping and interface, ensuring data consistency.
- Proficiently tuned database performance, with a thorough understanding of joins and data distribution methods.

PROJECTS

Data Analysis of Rock Fracture Patterns from Acoustic Emissions Using AWS

- Conducted extensive big data analysis on AWS, leveraging diverse tools like Amazon S3, AWS Glue, and AWS Sagemaker to explore rock fracture patterns from acoustic emissions.
- Utilized AWS Quicksight for result visualization and insightful data extraction, contributing significantly to scientific research on the fracturing energy of rocks across varied weather and temperature conditions.

Airbnb Trends in New York City using Tableau

- Analyzed Airbnb listings in NYC using Tableau, uncovering pricing trends, neighborhood preferences, and guest reviews.
- Developed interactive dashboards and provided insights on popular neighborhoods, property types, and super host impact benefiting hosts and travelers.

Household Electric Power Consumption Prediction

- Developed and applied ARIMA models for foundational predictions and extended analysis to SARIMA models, capturing seasonal patterns for accurate forecasting of household electric power consumption.
- Utilized AWS S3 as a robust data storage solution and integrated Snowflake as a powerful data warehouse, facilitating seamless data ingestion from S3 into Snowflake for comprehensive analysis and modeling in AWS Sagemaker.

SKILLS

- **Languages:** Python, C, SQL, PL/SQL, NoSQL
- **Cloud Technologies:** AWS S3, IAM, EC2, Amazon QuickSight, Athena, AWS Glue, Amazon Redshift, Amazon Sagemaker
- **Data Visualization Tools:** Tableau, Power BI, Excel
- **Databases:** MySQL, PostgreSQL, Oracle, MongoDB, Amazon RDS
- **Machine Learning:** NumPy, Pandas, Seaborn, Matplotlib, Scikit-Learn, k-NN, SVM, Random Forest, Decision Trees, K-Means Clustering
- **Other Skills and Tools:** Toad, JIRA, Data Structures, Microsoft Office, Git, Snowflake, PySpark, Databricks

EDUCATION

University of North Carolina at Charlotte (UNCC)

Dec 2023

Master of Science in Computer Science

Amrita School of Engineering, India

Jun 2020

Bachelor of Technology in ECE

CERTIFICATION

- AWS Certified Cloud Practitioner