Vishal Reddy

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Professional Summary

- Data professional with 5+ years of experience in data management, analysis, and visualization. Skilled in SQL, Python, Tableau, databases, and data warehouses. Experienced in data integrity, query optimization, and workflow automation to support organisational initiatives.

Education

- **University of Oklahoma** *Norman, U.S.*
  Master of Science in Management of Information and Technology *01/2023 - 12/2024*
  Courses: Data Science Analytics, Machine Learning, Advanced Database Management, Business Data Analysis, Business Intelligence.

- **JB Institute of Engineering and Technology** *Hyderabad, India*
  Bachelor of Technology in Computer Science and Engineering *08/2016 - 09/2020*

Professional Experience

University of Oklahoma *Norman, U.S.*
Graduate Research Assistant *08/2023 - 12/2024*

- Engineered ETL pipelines with Python, REST APIs, and AWS S3, Glue, Lambda to process 15 years of USAspending.gov data, optimizing partitioning and metadata management to cut processing time by 25%.
- Improved future budget allocation decisions effectiveness by quantitatively and qualitatively analysing the data, creating interactive Tableau dashboards.
- Led a team of 3 using agile methodologies, ensuring on-time delivery of milestones, adherence to data governance policies, and improving project efficiency by 15%.

Accenture *Hyderabad, India*
Data Engineer *02/2021 - 01/2023*

- Participated in the entire software development life cycle process and contributed to closing more than 50 user stories.
- Designed and implemented scalable data pipelines using SAP DI, AWS S3, EMR, Glue, Lambda, Athena, and Python, supporting the migration of data across 15 plants with 99% data accuracy.
- Developed Kibana dashboards to monitor EMR job performance, improving resource utilization by 20% and reducing troubleshooting time by 8 hours per week.
- Created and optimized SQL queries in Athena to ensure data consistency and integrity, decreasing data validation errors by 30%.

Electronics Corporation of India Limited *Hyderabad, India*
Junior Data Engineer *06/2017 - 07/2019*

- Built ETL workflows in SSIS to process and integrate Android app bug data from logs and feedback, reducing data processing time by 20%.
- Designed a star schema data warehouse and deployed OLAP cubes in SSAS, enabling faster bug trend analysis and reducing reporting time by 15%.

Academic Projects

Preventive Patient Care Engagement Predictor *10/2024*

- Managed 1 million healthcare records using Azure Blob Storage and Data Services.
- Built XGBoost and Decision Tree models with 78% accuracy, boosting patient engagement by 15%.

Skills

- **Technical skills**: Python, SQL, MySQL, SQL Server, MongoDB, PySpark, AWS, Azure, and GCP services, Bash Scripting.
- **Certifications:** AWS Certified Cloud Practitioner.
- **Awards:** Received Star Employee Award at Accenture.