

Vishal Reddy

Norman, United States

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🐙 [GitHub](#)

[Portfolio](#)

Education

- **University of Oklahoma** Jan 2023 – Dec 2024
Master of Science in Management of Information and Technology GPA: 4.0 Norman, U.S.
- **JB Institute of Engineering and Technology** Aug 2016 – Sept 2020
Bachelor of Technology in Computer Science and Engineering Hyderabad, India

Technical Skills

- **Languages:** Python, SQL, Java, C#, Shell Scripting.
- **Big Data:** Spark, Kafka, Hadoop.
- **Data Engineering:** Airflow, AWS (S3, Glue, EMR).
- **Databases Data warehouses:** MySQL, SQL Server, MongoDB, Redshift, BigQuery.
- **DevOps Tools:** Git, Docker, Jira, Bitbucket, Trello.
- **Visualization:** Tableau, Power BI, Excel.
- **IDEs Platforms:** PyCharm, VS Code, Microsoft Office.
- **AI Integration:** OpenAI, Gemini Pro.

Professional Experience

- University of Oklahoma** Jan 2024 – Dec 2024
Graduate Research Assistant Norman, U.S.
- Automated ESG report processing by 70% using OpenAI turbo 3.5 LLM, streamlining **water usage data** extraction for 100+ corporate reports and enhancing efficiency.
 - Built data pipelines for **USAspending.gov API data**, processing 15 years of data and creating **interactive Tableau dashboards** to deliver actionable insights to 10+ stakeholders.
 - Developed **Gemini Pro LLM-powered automated grading web application**, reducing feedback turnaround time by 40% for 624 students.
 - Implemented ETL workflows to extract business simulation systems data, updating KPIs weekly for reporting.

- Accenture** Feb 2021 – Dec 2023
Data Engineer Hyderabad, India
- Built over **150 ETL pipelines** to extract, process and store business data from **SAP source system** to **AWS S3** daily using **Apache Airflow**.
 - Developed **AWS Glue** pipelines to apply transformations as per business requirements processing over **3 million records**.
 - **Enabled data discovery** by cataloging data, enhancing discoverability and retrieval, reducing time using **Glue crawlers**.
 - Used **Amazon EMR and Spark** for large-scale data processing, processing over 10 TB data per day and improving operational insights, resulting in 30% improvement in job performance.
 - Created **Kibana dashboards** to monitor EMR job performance, including resource utilization and job execution times, improving efficiency by 25% and reducing troubleshooting time by 10 hours per week.
 - Developed complex SQL queries in **Athena** to validate data consistency and integrity between source and target systems.

- Electronics Corporation of India Limited** June 2018 – July 2019
Data Engineer Intern Hyderabad, India
- **Built ETL workflows in SSIS** to process and integrate Android app bug data from logs and feedback systems.
 - Designed a **star schema data warehouse** and deployed OLAP cubes in SSAS for analyzing bug trends and severity.
 - Developed **Tableau dashboards** to visualize bug metrics, trends, and high-risk features, enhancing debugging efficiency.
 - **Optimized SSAS cubes** with calculated measures and aggregations, boosting report performance by 30%.