Vishal Reddy

Norman, United States

✉ reddyvishal951@gmail.com   📞 +1 405-370-3645   ⬤ 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, Redshift).
- **Databases:** MySQL, SQL Server, MongoDB.
- **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.*

- Built a full-stack web application using **.NET for tracking student submissions**, improving submission management and tracking efficiency.
- 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.
- Scheduled 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.
- Developed AWS Glue pipelines for data transformation as per business requirements processing over 2 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 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 SSRS 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%.