Akhila Reddy Palugulla
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Experienced Data Analyst with over 3 years of expertise in data analysis, pipeline development, and workflow automation. Skilled in using AWS, Alteryx, and Tableau to deliver actionable insights and drive data-driven decision-making. Proficient in optimizing business strategies through data visualization and efficient process automation. Adept at streamlining complex data processes to enhance operational efficiency and improve overall performance.

Skills

- **Languages**: Python, R, Java, Scala, SQL, Bash, T-SQL
- **Database Management**: PostgreSQL, MongoDB, HBase, MS SQL Server, Cosmos DB, Oracle DB
- **Data Warehousing**: AWS Redshift, Snowflake, Google Big Query, Azure Synapse Analytics
- **ETL/Data Integration Tools**: AWS Glue, Talend, Informatica, Azure Data Factory
- **Other Tools**: Docker, Kubernetes, Tableau, Power BI, Git, GitHub, Jira, Microsoft Office Suite, Alteryx, MS Access

Work Experience

Accenture Private Solutions   Bengaluru, India
Data Analyst   March2022 - Jul 2023

- Retrieved large-scale sales transaction datasets from AWS S3, covering multiple regions and sales teams.
- Built and optimized automated Alteryx workflows to streamline data cleansing, transformation, and preparation. Used advanced tools and the Function Sub tool to efficiently process and manage the data pipeline.
- Conducted detailed analysis to aggregate sales performance by region, identify top-performing sales teams, and uncover trends. Focused on key metrics such as sales volume, regional performance, and team contributions.
- Revealed which region generated the highest sales, largely driven by respective, while pinpointing underperforming regions and teams. The analysis also highlighted trends in product sales across various markets.
- Developed interactive Tableau dashboards to present actionable insights, enabling stakeholders to explore sales trends, team performance, and product success visually.
- Delivered data-driven recommendations that led to a 15% increase in overall sales by redirecting resources to underperforming regions and fine-tuning sales strategies.

Application Development Associate   October2021 - March 2022

- Managed Azure Update Management, achieving an 80% success rate in monthly patch updates, resolving system vulnerabilities, and ensuring high system integrity and security.
- Automated the deployment of thousands of virtual machines and reduced manual workload using advanced Excel, Python, Bash, and PowerShell, improving operational efficiency, scalability, and deployment strategies.

Education

The University of Texas at Arlington   Arlington, TX
Master of Science in Information Systems   May 2025
Bapatla Engineering College   Bapatla, India
Bachelor of Technology in Civil Engineering   Aug 2015 - May 2019

Projects

Web Scraping | Python

- Extracted information on the top 1000 movies from Metacritic's "Of All Time" section using Python, employing libraries like Beautiful Soup and pandas to compile structured data into an Excel file, ensuring accuracy and consistency.
- Established a relational dictionary for movies, actors, and directors, implementing a cosine similarity algorithm using scikit-learn, enhancing user query functionalities and demonstrating advanced proficiency in data cleaning, analysis, and visualization techniques, leading to a 35% increase in user engagement.

Financial strategist, Data analyst | SQL, Tableau

- Carried out in-depth analysis of receivables and payables data to optimize working capital management using Tableau, focusing on improving cash flow and financial stability.
- Built interactive dashboards in Tableau to visualize key financial metrics, trends, and actionable insights for accounts receivable and payable, enhancing decision-making and financial strategy.
- Utilized Microsoft SQL Server for data extraction and integration and leveraged AWS RDS for efficient database management. Applied Tableau's advanced features, including calculated fields and visualizations, to uncover trends and support informed decision-making.

Fraud Detection for Online Payments

- Led comprehensive exploratory data analysis (EDA) on 38,900 transactional datasets to identify potential fraud indicators and patterns.
- Leveraged Machine Learning algorithms to develop predictive models for detecting fraudulent transactions, contributing to the enhancement of fraud prevention strategies and financial security measures

Achievements

Azure Fundamentals   March 2024 - March 2025
Vice-President, Data Science Club-University of Texas at Arlington   December 2023 - May 2024