Narra LBK Arvind Reddy

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Data Engineer with extensive experience in designing, developing, and managing large-scale data systems. Proficient in Python, SQL, and data visualization tools, with a strong focus on leveraging data to drive business insights and strategic decisions. Proven track record of enhancing data pipeline efficiency and developing robust data architectures.

Education:

Masters in Computer Software Engineering
Carleton University, Ottawa, Ontario | 01/2023 – 06/2024

Bachelors in Electrical and Electronics Engineering
VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, India | 08/2015 – 05/2019

Professional Experience:

Solution Advisor
Deloitte, Hyderabad, India | 09/2021 - 11/2022

- Directed a quality control team to enhance data pipeline development for financial services, improving data processing speed by 25%.
- Oversaw the design and implementation of data integration solutions supporting strategic decisions.
- Developed robust data architectures to support high-volume data processing and analysis.

Associate Solution Advisor
Deloitte, Hyderabad, India | 01/2021 - 08/2021

- Tested and refined Qspace, ensuring optimal performance for data manipulation and reporting, leading to a 15% improvement in system efficiency.
- Applied data analytics techniques to enhance product features and user engagement.
- Collaborated with developers to optimize data storage and retrieval processes.

Solution Delivery Analyst
Deloitte, Hyderabad, India | 06/2019 - 12/2020

- Focused on AML compliance, enhancing data accuracy and process efficiency using business analytics, resulting in a 20% reduction in compliance issues.
- Implemented data-driven strategies to optimize compliance monitoring and reporting.
- Conducted detailed data analyses to uncover insights and improve operational effectiveness.

Skills:

Programming Languages: Python, SQL
Databases: MongoDB, PostgreSQL, Snowflake
Tools and IDEs: Apache Spark, Databricks, Jupyter Notebook, Tableau
Technologies: Big Data Analytics, Machine Learning, ETL Processes, Data Modeling
Soft Skills: Leadership, Teamwork, Problem-solving, Communication
Cloud Platforms: AWS, Azure
Version Control: Git, GitHub, GitLab
Additional Skills: Docker, Kubernetes, Airflow, Kafka, Terraform

Projects:

Capstone Project:
Microprocessor-based Assistive Text Reader for the Visually Impaired

- Developed an assistive text reader using a microprocessor to aid visually impaired individuals. The device captures text through a camera, processes it, and converts it into speech. Focused on hardware-software integration and real-time text recognition to ensure seamless user experience.

Academic Projects:

Exploratory Data Analysis on Netflix's Movies and TV Shows

- Conducted a comprehensive data analysis on Netflix's content using Python and data visualization tools such as Tableau and D3. Uncovered patterns and trends in user preferences, aiding in content recommendation strategies. Emphasized data cleaning, exploration, and visualization.

Implementation of Levenberg-Marquardt Method

- Implemented the Levenberg-Marquardt algorithm for solving non-linear least squares problems. Developed the method to optimize the fitting of mathematical models to empirical data, enhancing the accuracy and efficiency of data analysis processes.

Exploring Testing Approaches for Web Applications: A Case of Interactive Recipe Finder

- Explored and evaluated various testing methodologies for web applications through the development of an interactive recipe finder. Focused on test automation, usability testing, and performance testing to ensure reliability and user satisfaction.

Portfolio Projects:

Real-Time Fraud Detection System

- Developed a real-time fraud detection system using Python, SQL, and machine learning. The system analyzed transaction patterns and flagged suspicious activities, reducing fraudulent transactions by 25% and saving significant financial resources. Focused on building data pipelines for real-time data processing and integrating machine learning models for anomaly detection.

Social Media Sentiment Analysis Tool

- Built a sentiment analysis tool for social media platforms using Python and machine learning. The tool analyzed user posts and comments to gauge public sentiment towards brands and products, providing valuable insights for marketing strategies. Implemented data ingestion, preprocessing, and storage solutions to handle large volumes of social media data.

Healthcare Data Integration Platform

- Created a data integration platform for a healthcare provider using AWS, Snowflake, and Tableau. The platform integrated patient data from various sources, providing a unified view of patient records and improving clinical decision-making and patient care. Focused on data extraction, transformation, and loading (ETL) processes to ensure data quality and consistency.

Affiliations: Reviewer, International Journal of Intelligent Information Systems (IJIIS)

Interests: Reading, Adventure Sports, Anime & Movies.

References available upon request.