RAMESH BONALA

+1 940-331-4237 | Mail: ramesh.616h@gmail.com | LinkedIn | Github

OBJECTIVE:

Aspiring Data Analyst leveraging a strong foundation in data processing, cloud technologies and data visualization to support data-driven decision-making and contribute to operational efficiency. Eager to apply technical skills in Python, SQL, and various data platforms to analyze complex datasets and provide actionable insights within a collaborative team environment.

TECHNICAL SKILLS

- **Programming & Scripting**: Python, SQL
- **Databases & Storage**: SQL Server, MySQL, AWS Redshift, Snowflake, MongoDB
- **Cloud Computing**: AWS, GCP
- **Data Modeling & Integration**: Data Warehousing, REST APIs, JSON, XML
- **Machine Learning & Analytics**: Scikit-Learn, TensorFlow, Pandas, NumPy, CNNs, RNN, LSTMs
- **Data Visualization & Reporting**: Power BI, Tableau
- **Version Control & DevOps**: Git, Jenkins
- **Other Tools**: Postman, Jira

PROFESSIONAL EXPERIENCE

Data Analyst, Mergen IT **July 2024 – Present**

- Assisted in refining data processing workflows by contributing to the design and optimization of ETL pipelines using Python, SQL, and AWS Redshift.
- Supported data quality efforts by running automated validation scripts to ensure data completeness and accessibility for analysis.
- Contributed to the deployment and scaling strategies for ETL services in cloud environments, gaining experience with Kubernetes.
- Helped maintain real-time data monitoring systems using Prometheus and Grafana to track pipeline performance.
- Supported the analysis of real-time data streams using Kafka to understand data ingestion patterns.
- Collaborated with data scientists and business analysts, applying Python and SQL to improve data preparation and workflow efficiency.

Teaching Assistant, University of North Texas (UNT) **August 2023 - May 2024**

- Guided students in statistical analysis projects utilizing tools such as SAS, R, and Python, contributing to faculty research initiatives and providing practical learning experiences for students.
- Developed and maintained SQL-based data pipelines to automate data preprocessing tasks, streamlining data preparation for research and analysis.
- Designed and created Power BI dashboards to effectively visualize research findings and insights, aiding in the communication of complex datasets.
- Collaborated with university faculty to integrate real-world analytics case studies into the curriculum, enhancing student engagement and the practical application of analytical skills.

Associate Engineer, EQUIFAX **Nov 2021 - Dec 2022**

- Optimized the efficiency of real-time and batch data processing workflows by leveraging various services within the Google Cloud Platform (GCP).
- Developed and implemented secure Application Programming Interfaces (APIs) to facilitate reliable data exchange between internal systems and external partners, operating primarily within the GCP environment.
- Conducted root-cause analysis of data-related failures and system connectivity issues, utilizing GCP monitoring and debugging tools to identify and implement effective solutions.
- Collaborated with cross-functional teams to troubleshoot data pipeline errors and ensure the accuracy and consistency of data across different systems, with a strong emphasis on those hosted on GCP.
- Designed and developed automated data reconciliation tools to proactively monitor and validate the integrity of data pipelines, enhancing data quality within the GCP ecosystem.
- Implemented fault tolerance and redundancy measures within data processing pipelines, utilizing GCP capabilities to ensure high system availability and resilience.
- Enhanced the performance and scalability of data processing systems by applying best practices in data flow management and leveraging relevant GCP data processing services.
- Participated in the management of the cloud-based data processing infrastructure on GCP, contributing to migration efforts and ensuring optimal resource utilization and cost-effectiveness.

Junior Data Analyst, NVIDIA. **Sep 2020 - Nov 2021**

- Developed and maintained high-frequency data pipelines to process and manage data from LiDAR and Radar sensors, crucial for autonomous vehicle performance analysis.
- Wrote and implemented Python-based ETL scripts to efficiently ingest, transform, and prepare large volumes of data originating from various sensor technologies into structured formats for analysis.
- Developed custom SQL queries and stored procedures to optimize the speed and efficiency of data retrieval and transformation processes within database systems.
- Provided support in the development and maintenance of Tableau dashboards used for tracking key system performance metrics and visualizing essential data insights for the engineering teams.
- Contributed to data pre-processing workflows, implementing techniques to reduce processing time and improve the overall accuracy and reliability of sensor data used in analysis.
- Assisted in data quality assurance processes by actively identifying anomalies, investigating discrepancies, and implementing solutions to ensure the integrity of incoming datasets.
- Worked collaboratively with engineering teams to identify opportunities for optimizing and streamlining the end-to-end data collection pipeline for autonomous vehicle systems.

EDUCATION

UNIVERSITY OF NORTH TEXAS **MAY 2024**

Master's, Advanced Data Analytics.

CERTIFICATIONS

- IBM Certified Data Engineer
- Google Data Analytics
- Microsoft Power BI Data Analyst