VENKATA SIVA NAGA BABU T

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PROFESSIONAL SUMMARY

- Accomplished Data Engineer with over 2 years of experience in managing and maintaining multiple databases using MS SQL Server for optimal performance and real-time transactional operations.
- Proficient in designing and implementing efficient database schemas, tables, stored procedures, and triggers to meet specific business requirements and ensure data normalization.
- Skilled in developing and managing robust ETL processes to extract, transform, and load data from various sources into a centralized data warehouse for seamless integration and analysis.
- Proactive in ensuring data quality and consistency within the data warehouse, utilizing comprehensive data quality checks to provide trustworthy data for decision-making.
- Experienced in optimizing database and data warehouse performance through indexing, partitioning, and query tuning techniques, resulting in enhanced efficiency and response times.
- Demonstrated ability to seamlessly integrate data from multiple systems and sources into the data warehouse, employing effective data pipeline design and development practices.
- Proficient in utilizing PowerBI, Excel, and Python for insightful reporting, visualization, data analysis, cleaning, and machine learning tasks, enabling data-driven decision-making.
- Collaborative team player experienced in working closely with developers, understanding their data requirements, and ensuring seamless integration into applications for optimized performance and functionality.
- Effective at providing expert support and maintenance for web applications, delivering accurate insights, customized reports, and visualizations to support a user base of over 2000 business users.
- Proactively staying updated with the latest advancements in data engineering, SQL server, Python, and data analysis techniques to drive innovation and improve processes.
- Experienced in facilitating the entire life cycle of a data science project: Data Extraction, Data Pre-Processing, Feature Engineering, Dimensionality Reduction, Algorithm implementation and Validation.
- Adept at analysis of Missing data by exploring correlations and similarities, introducing dummy variables for missingness, and choosing from imputation methods such iterative imputer on Python.
- Proficient in data manipulation, Data preparation, Normalization and Predictive modeling. Improved efficiency and accuracy of the model using Python.

TECHNICAL SKILLS

Databases	SQL Server, MySQL, PostgreSQL
Data Warehousing	ETL Processes, Data Integration, Data Warehouse Design, Data Warehouse Maintenance
Test Scripting	Intra-Database Testing, Inter-Database Testing, Data Warehouse Testing
Data Visualization	Microsoft power BI, seaborn, Excel
Version Control & API Development	Git, Flask
Languages /Libraries	Python: pandas, numpy, scikit-learn, scipy, pyspark, statsmodels, matplotlib,seaborn, tensorflow Auto-EDA: DataPrep, pandas-profiling, dtale, autoimpute,
Database Management	Indexing, partitioning, Query tuning techniques
Statistics/ML	Exploratory Data Analysis, Supervised Learning, Unsupervised Learning, Feature Engineering, Statistical Tests, Sampling Methods, Model Tuning/Selection
Collaboration	Teamwork, Communication Skills
Reporting Solutions	Development and implementation of data and reporting solutions

WORK EXPERIENCE

Data Engineer | QubeRoot Analytics LLP | November 2021 – Present

1. Successfully manage and maintain databases using MS SQL Server, ensuring optimal performance, data integrity, and real-time transactional operations.
2. Develop and manage robust ETL processes, extracting, transforming, and loading data from multiple databases into a centralized data warehouse for seamless integration and analysis.
3. Utilize SQL server scripts to regularly update and maintain data within the data warehouse, ensuring it is constantly up-to-date and readily available for business intelligence purposes.
4. Implement comprehensive data quality checks to ensure data consistency, accuracy, and reliability within the data warehouse, providing trustworthy data for decision-making.
5. Design and implement efficient database schemas, tables, indexes, stored procedures, functions, and triggers to meet specific business requirements and ensure data normalization.
6. Continuously monitor and optimize database and data warehouse performance, employing indexing, partitioning, and query tuning techniques to enhance efficiency and response times.
7. Seamlessly integrate data from various systems, databases, and external sources into the data warehouse, using effective data pipeline design and development practices.
8. Investigated and resolved data-related issues in a fast-paced startup environment, maintaining data consistency and identifying performance bottlenecks.
9. Proficiently performed data extraction, transformation, and loading (ETL) tasks, standardizing data formats and aligning data across databases.

10. Collaborated with stakeholders, developers, and production teams to understand business needs and provide database solutions.
11. Provides support for data-related tasks in ongoing maintenance and enhancements of the web application, catering to a team of over 50 developers and serving a user base of 2000 business users.
12. Utilized PowerBI and Excel for insightful reporting and visualization and generating comprehensive reports based on integrated data.

Achievements: - **Performance excellence Award** for "outstanding performance and long-lasting contributions" from QubeRoot Analytics LLP

Job Title: Assistant professor
College: Deveneni Venkata Ramana & D H R Mic College of Technology
Duration: July 2019 – January 2021.

- Training and placement cell in charge of the department.
- Member of Internal Quality Assurance Cell in the MIC College.

PROJECT WORK EXPERIENCE

Place: - **Nit Calicut**
timeframe: - **June 2018 – May 2019**
Automated the calibration and validation process of simulation models using python:

- Worked mainly in Python and PTV Vissim during my master's degree project. With the help of Python, I automated the calibration and validation process of a Roundabout model created in Vissim by using win32com.Client package and other data science modules like Scipy and Numpy.
- **Project Title:** Identifying The Effective Type of Roundabout Based on Traffic Conditions usingSimulation modelling in PTV VISSIM.
- **Description:** Micro-Simulation Modeling of Roundabouts done using PTV VISSIM. The main outcome of the project is to find the efficiency of roundabouts and to increase the efficiency of roundabouts by introducing new layouts.
- **Applications:** This type of simulation project is mainly used to find the efficiency of upcoming new developments, and used while converting existing intersection into roundabout. This type of planning will help in creating efficient traffic flow.

CERTIFICATIONS

- Python boot camp
- Python for everybody course authorized by University of Michigan
- MySQL boot camp

- Master in Microsoft Power BI boot camp
- Data science and Machine learning boot camp

ACADEMIC QUALIFICATIONS

Course	Institution	Year of Passing	Percentage / CGPA
M.Tech (Traffic And Transportation Planning)	National Institute of Technology (**NIT**) Calicut	2019	7.9
B.Tech (Civil engineering)	Velagapudi Ramakrishna Siddhartha Engineering College	2017	8.52

PERSONAL STRENGTHS

- Positive attitude
- Sincere and hard working
- Committed to Lifelong learning.
- Ability to work under pressure.
- Reliable and Consistent

OTHER INFORMATION

- Qualified GATE in first attempt with 633 SCORE
- Excellent Problem-Solving Skills
- Adaptability to any kind of environment