**Nimratpreet Kaur E-mail ID:** nimrataulakh024@gmail.com

**Data Scientist/Data Engineer Contact no.:** 437 331 4794

**PROFESSIONAL SUMMARY:**

* Experienced in data manipulation using python and python libraries such as Pandas, NumPy, SciPy and Scikit-Learn for data analysis, numerical computations, and machine learning.
* Proficient in python scripting, experienced in using statistical functions provided by NumPy, data visualization using Matplotlib, data organization with Pandas.
* Hands on Experience in using Visualization tools like Tableau, Power BI.
* Hands-on experience in administration and management of databases, ensuring data integrity, availability, and performance.
* Developed many business intelligence dashboards using Tableau.
* Conducted data analysis on sales dataset to find new opportunities and to increase sales by 15%.
* Worked on many other datasets in tableau to analyse the data and increase their productivity.
* Worked with database management systems (DBMS) like MySQL, Oracle, and SQL Server.
* Optimized database performance by conducting tuning, indexing and query optimization.
* Conducted backups, data recovery and disaster planning.
* Designed and implemented database backup and recovery strategies to prevent data loss.
* Implemented security measures and access controls to protect sensitive data.
* Developed and implemented a comprehensive reporting solution using SSRS, resulting in improved data visualization.
* Designed and executed complex ETL processes using SSIS to integrate data from various sources into centralized data warehouse, enhancing data accuracy and availability.
* Created multidimensional data models using SSAS to facilitate advanced analytics and decision-making, resulting in improved performance.
* Resolved database- related issues.
* Developed and implemented database strategies.
* Optimized SQL queries and improved application performance.
* Designed and optimized time and procedures to improve database performance, reduce query execution time, and enhance data retrieval efficiency.
* Developed and maintained PL/SQL packages, procedures, functions, and triggers to facilitate data manipulation.
* Data validation using PL/SQL and SQL stored procedures.

**SKILLS:**

* Hypothesis testing, regression analysis, and data modeling.
* Supervised and unsupervised learning, classification, regression, clustering, and feature engineering
* Data visualisation using matplotlib, gplot and tableau
* Strong Analytical and Problem-Solving Skills
* Excellent Communication and Collaboration Abilities
* Database Design and Administration
* Database Performance Tuning and Optimization
* Data Backup and Recovery
* Data Security and Access Control
* SQL Query Optimization
* Database Monitoring and Maintenance
* Troubleshooting and Issue Resolution
* Database Migration and Updates
* Database Documentation
* Strong Analytical and Problem-Solving Skills
* Excellent Communication and Collaboration Abilities

**TECHNICAL SKILLS:**

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| --- | --- |
| Programming Languages | SQL, Python, PL/SQL, R, JAVA |
| Databases | SQL Server, MySQL, Oracle |
| NoSQL Database | HBase, MongoDB |
| Web Technologies | HTML, CSS, JAVASCRIPT |
| Tools Used | Tableau, Power BI, SSRS, SSIS, SSAS, SSMS, Spark, Hive, Hadoop, Pig, SQL developer, Jupyter notebook RStudio, Eclipse, Visual studio |

**EXPERIENCE:**

**Lykka Village, Montreal, Quebec**

*Database Developer Intern Jan 2023-April 2023*

**Roles and Responsibilities:**

* **Database Design**: Collaborating with the development team to design the database schema and structure that aligns with the requirements of the map view page. This involves identifying the entities, defining relationships between them, and optimizing the data model for efficient data storage and retrieval.
* **Data Modeling:** Creating and maintaining the data models in MongoDB, including defining collections, indexes, and ensuring data integrity and consistency.
* **Query Optimization:** Analyzing the application's data access patterns and optimizing database queries for improved performance. This includes identifying slow-running queries, optimizing indexes, and leveraging MongoDB's query optimization techniques.
* **Data Migration:** Assisting in migrating existing data or integrating new data sources into the database system. This involves designing and executing data migration scripts or processes to ensure a smooth transition and data integrity.
* **Database Administration:** Monitoring and maintaining the MongoDB database to ensure its performance, availability, and security. This includes managing backups and restoration processes, implementing security measures, and monitoring database health and performance metrics.
* **Database Integration:** Integrating the MongoDB database with the backend server implemented in Node.js. This involves establishing the connection, handling CRUD operations, and ensuring data consistency between the frontend and backend.
* **Data Validation and Security:** Implementing data validation mechanisms to ensure data quality and consistency. This includes enforcing data constraints, validating user input, and implementing appropriate security measures to protect sensitive information stored in the database.
* **Collaboration and Documentation:** Collaborating with the development team to understand the data requirements and providing guidance on best practices for database interactions. Additionally, documenting the database schema, data models, and any relevant guidelines or procedures for future reference.
* **Troubleshooting and Bug Fixing:** Investigating and resolving database-related issues and bugs reported by the development team or users. This involves analyzing error logs, debugging queries, and implementing fixes or optimizations to address the issues.
* **Performance Monitoring and Optimization:** Monitoring the performance of the database system, identifying bottlenecks, and suggesting optimizations to enhance overall performance and scalability.

**EDUCATION:**

**Humber College Institute of Technology & Advanced Learning, Toronto, ON**

*Information Technology Solutions Sept 2021-April 2023*

**Key Courses:** Business Intelligence, Introduction to Data Analytics, Machine Learning, Introduction to Database and SQL, SQL Server Database Development, Oracle Database Administration 1, Oracle Database Administration 2, SQL Server Administration, Big Data, Oracle Database Development, Importing Data Modelling and Reporting with SQL, Oracle Data Warehouse Fundamentals, Oracle Data Warehouse Implementation, Oracle Database using PL/SQL, XML and JavaScript, Java Programming.

**Guru Nanak Dev University, Amritsar, India**

*Bachelor of Science (Honors) Physics July 2017- May 2020*