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Description automatically generated Priyanka Lingeswaran**

**Senior Data Analyst**

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**PROFESSIONAL SUMMARY:**

* **8** years of Industry experience as a Data Analyst with experience using python, Tableau, Python, Power BI, Excel, and PowerPoint for obtaining actionable insights and helping business teams make data-driven decisions.
* Strong experience in Tableau Desktop & Power BI, designed and developed multiple advanced visualization reports and dashboards using relational databases like SQL server and MySQL.
* Designed and developed many complex reports based on the requirements using complex calculations like Row-level and aggregate calculations, filter and URL actions, trend lines, and forecast lines in Tableau Desktop.
* Extensive experience in SQL Server Stored Procedures, Functions, Database Triggers, Views, Indexes, and advanced database concepts.
* Used Python libraries like NumPy and SciPy to filter unstructured data.
* Utilized Python to compile and manipulate data and connect it with Tableau to build analytical dashboards and story points.
* Performed multiple Data Mining techniques like Classification, Clustering, and Outlier detection and derived new insights from the data during exploratory analysis
* Expert business and technical requirements documenting abilities, including data mapping, diagramming, Use Cases, and business rules, to create concise functional specifications using modern technologies.
* Experienced in Dimensional Data Modeling experience using Data modeling, Relational Data modeling, Star Join Schema/Snowflake modeling, FACT & Dimensions tables, and Conceptual, Physical & logical data modeling.
* Created and maintained SSIS ETL packages to extract data from different systems and load a variety of large-volume data into a data warehouse from different sources like flat files, and Excel files.
* Experience in installing Tableau Server on both on-Premises as well as the Cloud, using Amazon EC2 instances in Amazon Web Services (AWS).
* Hands-on experience with modeling using ERWIN in both forward and reverse engineering cases.
* Well Versed with all aspects of Data Engineering, Data Modeling, Analysis, Design, Development, and Visualization of various Business applications in related Database platforms
* Experienced in Software Development Life cycle (SDLC) using SCRUM, and Agile methodologies.

**Technical Skills:**

|  |  |
| --- | --- |
| Data Warehousing | ETL Informatica |
| GUI Reporting Tools | Tableau Server, SSIS, Tableau Desktop, Power BI, SSRS |
| Databases | Oracle, Microsoft SQL Server, MySQL, Teradata |
| Programming Languages | SQL, PL/SQL, VB Script, Python |
| Web Servers | Apache Tomcat, WebLogic. |
| Methodologies | Agile (Scrum), Waterfall, UML, Design Patterns, SDLC. |
| Other Tools: | MS Office suite (Word, Excel, Project, and Outlook), BTEQ, Teradata, JIRA, Git |

**PROJECTS SUMMARY**

**CVS Health, Irving, TX Aug 2021 – May 2022**

**Data Analyst**

**Responsibilities:**

* Extracted, manipulated, and analysed health care and retail data using Teradata from multiple sources to derive and visualize actionable insights for decision-making.
* Analyses to measure financial and clinical impacts and outcomes of programs and interventions using descriptive statistics, correlation tests, linear/logistic regression, and ANOVA
* Built dynamic dashboards using Tableau to track patient adherence and other user-centred metrics.
* Created forecasts using ARIMA models to track the performance of the Operations team for budget forecasting/variance analysis.
* Designed summary data layers by integrating and manipulating data from disparate sources to support planned analyses, using SAS and SQL.
* Tailored descriptive analytic solutions to the specific client needs and formulate recommendations to the operations team based on findings
* Gathered and analysed business requirements, interacted with various business users, project leaders, and developers, and took part in identifying different data sources.
* Involved with Data Analysis primarily Identifying Data Sets, Source Data, Source Meta Data, Data Definitions, and Data Formats.
* Generated new data mapping documentation and redefined the proper requirements in detail.
* Performing the role of Tableau site admin for 3 of our sites.

**Environment**: Teradata SQL, SAS, Oracle SQL, T-SQL, Tableau, Python, Jira, Agile, TOAD, SharePoint, Google

Big query

**Novateur Technologies, CA July 2018 – Jul 2021**

**Data Analyst**

**Responsibilities:**

* Facilitated business meetings to work on the **functional/non-functional** requirements of Bas/Product

Managers

* Utilized complex performance-optimized SQL queries in **Snowflake** for checking data redundancies and designed UNIX shell scripts to tackle them automatically and by using **Cron** schedulers.
* Working on **cloud data migration**.
* Convert the Teradata scripts into Snowflake scripts using the correct syntax.
* Load history data from Teradata to Snowflake using python snowflake connectors.
* **Tokenize** the NPI data using in-house tokenizing tools before loading it into Snowflake.
* **QA** the Snowflake output with the Teradata and get the **UAT** signoff from Business Users.
* Successfully interpreted data to conclude managerial action and strategy.
* **Built a Couple of Custom SQL reports to monitor the Loss Data and had to alert the business if the Threshold value is exceeded or any unforeseen exceptions occur**
* Had to come up with **Mockups& designs for Tableau** for reporting requirements including **sharing the join & filter conditions.**
* Provide suggestions for the Snowflake remediation logic to other team members based on findings.
* Provide regular status updates on the progress of remediation to the project leads.
* Created reports using SQL queries using Teradata SQL assistant.
* **Automated Snowflake** scripts to generate **daily/weekly/monthly** reports for operational staff and consultants.
* Ensure data quality, data organization, metadata, and data profiling and provide technical support to Data warehouse teams.
* Created **Tableau reports** and published them in **Tableau Server** for leadership teams
* Worked on **Tableau 10.1 BI Answers to build Interactive Dashboards** with drill-down capabilities for data migration status.
* Developed **SQL scripts** for accessing data from the **Snowflake** server tables.
* Developed automated data pipelines from various external data sources (web pages, API, etc) to the internal data warehouse (**SQL** server, **AWS**), then export to reporting tools like Datorama by **Python**.
* Performed system testing by coordinating with the business and development teams.

**Environment**: Teradata15.0, Snowflake, AWS, Windows XP, UNIX, .Net, SQL, MS Office, Tableau10.1

**Sterlite Technologies Ltd Pune, India Apr 2016 to Feb 2018**

**Data Analyst**

**Responsibilities:**

* Elicited and detailed functional system requirements and non-functional system requirements from cross-functional technical teams to identify the needs of the new analytical environment
* Wrote complex SQL queries involving joins, sub-queries, and creating temporary/volatile tables, using Teradata SQL Assistant and SQL Developer.
* Created Data mapping documents to capture the source to target data flow and any transformation and business logic involved.
* Create tools or queries to obtain data from a central data repository for reporting, quantitative and qualitative data analysis, and present final analysis to customers.
* Prepared Scripts in Python and Shell for the Automation of administration tasks.
* Worked on Tableau to build Interactive transaction migration Dashboards with drill-down capabilities for reporting and monitoring, Developed SQL scripts for accessing data from the Teradata/SQL server tables, Worked in data quality, data organization, metadata, and data profiling
* Performed Data Analysis to provide insight into data defects and future state issues that might arise over time during new data migration.
* Created test cases, analyzed the results, tracked the defects by generating reports, and map the test cases to requirements to create traceability metrics
* Tested the iterative versions using the RUP methodology.
* Developed status update templates and provided timely status updates for the status review meetings.

**Environment:** Teradata, SQL Developer, Excel, SQL Server, Python, SQL, MS Office, Tableau.

**TCS, Tamil Nadu, India May 2014 to Dec 2016**

**Data Analyst**

**Responsibilities:**

* Prepared multiple tables in a single data source in Tableau using SQL queries
* Used In memory Tableau data extract in Tableau for data efficiency
* Used a required number of action filters in Tableau to avoid data clutter
* Crafted Level of Detail (LOD) expressions – Fixed LOD, Include LOD and Exclude LOD that involved too many dimensions in Tableau
* Successfully used hierarchical data to drill down data in Tableau at a more granular level
* Used tabprotosrv.txt and log.txt, tdeserver.txt files to view SQL when required while working in Tableau
* Used Python to clean data and import data to Tableau

**Environment**: Teradata SQL Assistant, Tableau, Python, MS Excel, MS PowerPoint, ETL