**Abhishek Sharma**

Sr. Data Analyst

**PROFESSIONAL SUMMARY**

* **Having 5 years** of experience in business and **data analytics**, **data manipulation**, **modeling**, **machine learning**, **data integration**, **data warehousing concepts**, and **data migration**.
* Built data products and processes alongside the **core engineering** and technology team.
* Collaborated with **senior data scientists** to **curate**, **wrangle**, and prepare data for use in their **advanced analytical models**.
* Ability to collaborate with peers, work in teams in both; **the business** and the **technical areas**, to deliver the strategic solutions in line with corporate priorities.
* Experienced with **JIRA** for **Project Management**, **Agile** **Scrum** process.
* Participated in the development of **short-** and **long-term information architecture strategies**, support and participated in the **strategic planning processes**.  Built **data migration strategies**.
* Worked with **business** and **vendor partners**, and **project delivery** lead to determine **business data intelligence** requirements.  Interpreted and documented the data needs for the business.  Analyzed program protocols and translated them into **data warehousing** and **data mart** requirements.
* Highly skilled in educating **business unit staff** on agile and **scrum terminology** and processes.
* Proven abilities in defining the scope of projects based on business strategy and objectives, including documentation of **project constraints**, **project risks**, and **business impacts**.
* Strong understanding of **data modeling** concepts, including **physical** and **logical data models**.
* Highly experienced in writing and executing **complex SQL queries**, stored procedures in the **relational database management system**.
* Experienced in the extraction of data using **SQL Server Services** and **Crystal Reports**.
* Familiar with the fundamentals of **Hadoop Architecture**, **HDFS Framework**, and components of its ecosystem like **Map Reduce** and **HIVE**.
* Have flawless control and understanding of the concepts such as: **'K-means-Clustering**', **'Decision-Trees-and-Random -Forests**', ***'Naïve Bayes***', and **'Natural-Language-Processing**'.
* Highly proficient in **mapping transformation**, **data modeling**, and **data-warehouse** concepts.
* Experienced in **data governance**, **data quality**, **metadata management**.
* Proven ability to **design** and **optimize queries** to **build scalable**, **modular**, **efficient data pipelines** using **Alteryx, SSIS/SSRS**.
* Developed solutions using **Tableau** and **Alteryx** to provide the data for the dashboard in formats that include **JSON**, **CSV**, **excel** and highly experienced with **data warehousing dictionary** software platforms such as **SSAS/SSRS/SSIS**, **Business Objects**, **Amazon Redshift**, **Azure Data Warehouse**, and **Teradata**.
* Extensively utilized python libraries such as **NumPy, Pandas, SciPy, Matplotlib** for data analysis and visualization.
* Successfully implemented the **scrum agile development** **methodology** within the **cross-functional team**, closely worked as a liaison between the business user group and the technical team.

**TECHNICAL SKILLS**

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| --- | --- |
| **Programming Languages** | Python, C, C++, R, PERL, HIVE., Spark, T-SQL, Visual Basic |
| **Tools** | SQL Workbench, Putty, SSAS, SSIS, SQL Developer. |
| **Database Systems** | Teradata MVC, SQL Shell (psql), Postgre SQL, SQL Lite, MySQL, NoSQL AWS, MS Access 2007, Tera Data, and IBM SPSS. |
| **Business Intelligence Tools** | Tableau, Power BI, Jupyter, Spyder, Visual Studio, MS Excel R Studio, IBM SPSS, and Alteryx. |
| **Office Applications & Reporting Tools** | MS Office (Word, Excel, Visio, PowerPoint, Project), Skype, Business Objects 5.x/6.x |
| **Data Modeling Tools** | Logical modeling, physical modeling, relational modeling, ER Diagrams, XML Schema |
| **Data Analytics Libraries** | Pandas, NumPy, Plotly, Matplotlib, SciPy, Scikit-learn, NLTK |
| **Project Execution Methodologies** | Agile, Scrum, and Lean Six Sigma |
| **Operating Systems** | Windows XP, Windows OS, Unix, Mac OS. |

**PROFESSIONAL EXPERIENCE:**

**Client: GE Power, Norfolk Virginia Sep 2019 - Present**

**Role: Data Analyst**

**Responsibilities:**

* **Researched** and **investigated** the studies on the **forecasts**, **demand**, **market risks** and **capital of products**. Performed **market analysis** to discover hidden market opportunities and then conducted **SWOT analysis** through data visualization using **Tableau** and **Anaconda environment**.
* Delivered **production-ready data engineering solutions**, including **requirements definition**, **architecture selection**, **prototype development**, **debugging**, **unit-testing**, **deployment**, **support**, and **maintenance**.
* Using **JIRA** for **Project Management,** worked with senior management, technical and client
* Demonstrated the **curiosity, interpersonal abilities**, and **organizational skills** necessary to serve as a **consulting partner**, includes the ability to uncover, understand, and assess the needs of **various business stakeholders**.
* Designed database data models ETL processes, data warehouse applications and business intelligence BI reports using **POWER BI**, **ALTERYX**.
* Used **Tableau** and **Python** tools to redesign and develop workflows, conducted **regression analysis** and **data modeling**.
* Utilized the **Agile methodology** as per the organization's standards to implement dataset models.
* Developed **SQL scripts** to create **databases**, database objects and performed **DDL** and **DML** tasks.
* Analyzed and worked on developing a design prototype for **Dimension Tables** and **Fact Tables** based on the **warehouse design** in context to the company’s requirements.
* Performed reverse engineering using **Erwin** to redefine **entities**, **attributes**, and relationships existing in the database.
* Conducted **logical data modeling**, **physical Data modeling** using the **Tableau**, and **Jupyter Data Modeling tools**.
* Generated various data structures using **SQL Server Integration Services (SSIS)** and **SQL Server Report Services (SSRS)** for business analysts and the management team.
* Documented requirements for designing data marts that were used as the source for the various systems in the company.
* Developed and maintained the data dictionary to create **metadata files** for **APPLICATION** purposes.
* Performed Data Analysis using **SQL** for **Testing** and **troubleshooting** against **Data Warehouses**.
* Extracted data from different sources like **Oracle** and text files using **SAS/Access**, **SAS SQL** procedures and created **SAS datasets**.
* Utilized **data clustering algorithms** such as **K-means**, and **regression analysis** to read the specific target data of a client.
* Documented test cases, test plans and test results for the loading processes and **data validation**.
* Maintained and implemented **Data Models** for **Enterprise Data Warehouse** using Anaconda tools and libraries.
* Involved in the development and implementation of **SSIS**, **SSRS** and **SSAS** application solutions for various business units across the organization.

**Software used:** Windows XP, Anaconda, MySQL, Postgre SQL, and Tableau.

**Client: HUMANA, Louisville, KY March 2019 - Aug 2019**

**Role: Data Analyst**

**Responsibilities:**

* Worked with business analysts for requirement gathering, business analysis, and testing and project Coordination.
* Interacted with **Subject Matter Experts (SME's)** along with Stakeholders to get a better understanding of the client's business processes and gathered project’s requirements to deliver the best results.
* Proven skills demonstrated through handling various clients across the USA to gather the detail level clients’ reporting requirements.
* Used **Jira** for **Project Management**, and issue tracking
* Designed and developed data **dictionaries** to store the information for **future data sets** including the **operational parameters and strategic requirements**.
* Used **data profiling methodology** to assess the risk involved in integrating the new data from different application systems.
* Performed **reverse engineering** of the physical data model from the databases and **SQL scripts**.
* Used **data normalization techniques**.
* Utilized **indexing** and hints to improve performance and initiate a better understanding of **SQL queries**.
* Translated the business requirements into **data models** supporting long-term solutions.
* Created business and **technical metadata** through data modeling tools.
* Enforced standards and best practices around **data modeling efforts**.
* Performed **logical data modeling**, **physical data modeling**, and **K-means-clustering** through Anaconda and the other **python tools**.
* Developed and maintained a **data dictionary** to create various **metadata reports** for technical and business purposes.
* Involved in **designing sub-reports** and linked them depending on the **user requirements** and to limit the number of Data Sources**.**
* Derived client solutions using different reporting features such as group by, **drill-downs**, **drill-through**, etc**.**

**Software used:** Operating System: Windows 7, Microsoft Workbench, SQL Server 2008, SSRS, SSIS, SSAS, Anaconda, MySQL, and Tableau.

**Client: Pepsi CO, Plano, TX Jan 2018 - Feb 2019**

**Role: Data Analyst**

**Responsibilities:**

* Responsible for writing new stored procedures and editing existing **stored procedures** for new modifications.
* Done **data profiling** and identified the existing gaps by doing the gap analysis.
* Designed and developed dictionary to store the information of future data sets including the operational parameters.
* Created **Logical** and **Physical Data Models** for **central model consolidation**.
* Worked with **DBAs** to create a best fit physical data model from the **logical data model**.
* Involved in **Logical** and **Physical Designs** and transforms logical models into physical implementations as per the requirements of the company.
* Analyzed the existing **troubleshooting systems** with their optimization levels and developed business documentation on recommended changes.
* Designed and Developed **Oracle Database Tables**, **Views**, **Indexes** with proper privileges and Maintained and updated the database by deleting and removing old data.
* Performed **Unit Testing** and **tuned** for better performance.
* Planned adjustments in **Data Model** and **SQL scripts** to create and alter tables.
* Designed flowcharts, layout diagrams using **Microsoft Visio**.
* Design and development of complex business rules using **PL/SQL**.
* Designed and **created tables**, **views**, **indexes**, **stored procedures**, and **triggers**.
* Reviews **Data Mapping documents** and guide **Business System Analysts**.
* Interfaced with other business analysts, developers and technical support to determine the best requirement specifications.
* Extracted data from disparate sources like **Text**, **EXCEL**, **Relational Databases**, etc. and generated a table structure for further analysis of data.
* Tuned complex queries using **indexing**, **partitioning** and **analyzing** a query execution plan.
* Testing the target table structures to validate them against the source data.
* Created table structures in Staging and Data Store areas.

**Software Used:** Pl/SQL, Erwin, OLAP, OLTP, SQL Server.

**Client: Intel Tech Innovations, India Jan 2015 - Jul 2017**

**Role: Business Analyst**

**Responsibilities:**

* Created interactive solutions for **sorting**, different **parameterized reports** which consist of required clients’ criteria in various short-term projects to build and minimize the execution time and to limit the no of records required.
* Involved in designing **sub-reports** and **linked reports** depending on the user requirement and to limit the number of Data Sources.
* Derived client solutions using different reporting features such as **group by**, **drill-downs**, **drill-through**, etc.
* Created **parameters (multi-value, hidden, default, etc.)** for the required fields using the data visualization tools to demonstrate the **dropdowns** in the end report.
* Used various types of report layout options like **charts (bars, lines, pie, etc.)**, images, graphs, hyperlinks, etc. to make them more interactive and understandable.
* Formatted the presentations of documents using **Global variables** and **expressions**.
* Exported the solutions into **PDF**, **Excel**, **CSV**, **JSON**, etc. formats.
* Increased the performance necessary for **statistical solutions** by 25% after **performance monitoring**, tuning and optimizing indexes.
* Scheduled presentations for daily, weekly, monthly subscriptions for executives, Business analyst and customer representatives for various categories and regions based on business need using **SQL Server Reporting Services**.
* Configuration and Deployment of all the data gathered through **RDL** across various **SDLC** environments.
* Deployed the solutions on **Web Server**, implemented security to restrict access to users and to allow them to use only certain reports.
* Integrated several software programs to minimize the execution of data and to minimize software requirements for warehousing.
* Used **Team Foundation Server** to store, run, view, edit and revert to different versions of the design in case of a system crash.
* Used **Team Foundation Server** to **store**, **run**, **view**, **edit** and revert to different versions of the design in case of a system crash.
* Design and develop **SSIS Packages** to perform daily **Data warehouse** loads from various source systems including **Flat Files**, **Excel Files**, **SQL Server** and used configuration files to execute the packages across different environments.
* Deployed the **Packages to File System** and **SQL** **Server** and scheduled them using **SQL Server Agent** to run automatically.
* Worked with Data flow tasks like **Excel**, **OLEDB**, and **Lookup** and installed custom tasks like **Google Analytics Source** and pulled data from **Web** into **Data warehouse**.
* Used **share point portal** for technical documentation.

**Software Used:** Oracle 9i, Pl/SQL, SSIS, SSRS, SQL Server 2008.

**CERTIFICATIONS:**

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| **UDEMY CERTIFICATION IN** | **CREDENTIAL ID** |
| PYTHON | ID: UC-3UK1ZTR9 |
| MACHINE LEARNING | UC-PPMX9XFV |
| R | ID: UC- IEYTNNBK |
| SQL | ID: UC-K7VCIU9J |
| DATA VISUALIZATION & DATA CLEANING | ID: UC- JUK1ZTR9 |