**SUNIL KUMAR SINGH**

**Professional Summary:**

* Data Analyst professional with 6 years of experience in **Banking, HealthCare, Finance, Manufacturing and pharmaceutical domain**
* Good knowledge in **Data Analysing**, **Data Validation**, **Data Cleansing**, **Data Verificatio**n and Identifying **Data mismatch**
* Proficient in writing in **SQL** for validating the **Data migration and Data integration**.
* Experience in data modeling using **E-R diagram, Normalization and DE Normalization** techniques for optimizing the performance in relational and dimensions environments
* Manipulating and analyzing data sets using Data Analytics / Visualization tools using **Tableau, Power BI, SAS, SSIS, MS Access, and Microsoft Excel** for **visualization and predictive** models.
* Develop sophisticated SSRS reports against complex data sets
* Familiar with Object Oriented Programming **(OOPs)** concepts and statistical Programming software **(Python)**
* Worked on several standard Python Packages like **NumPy and Matplotlib**
* Familiar with many data visualization (univariant and Multivariate plots) using **XL minor** such as (line Plot, Scatter Plot, Histogram, Dendrogram, Box plot, Bar Chart, Pie chat pivot table and V-lookups)
* Having a good knowledge with both the **SQL** ( MySQL, MS SQL Server) and **NoSQL**

(**MongoDB**) based database

* Experienced in developing conceptual, logical models and physical model database design for **OLTP and OLAP** systems.
* Experienced in **Data Migration,** Data Conversions using **DTS, Data Junction and SQL Loader.**
* Familiar with standard **SDLC** processes and various methodologies like **Waterfall and Agile Scrum**
* **Knowledge with ETL design, analysis, Testing and development experience in visual studio and MS SQL server environment**
* Experience in data mapping from **(STM**) source to target database schema
* Experience with **Data Modeling** using Microsoft Visio for creating **Logical and Physical Data Models**
* experience of regarding **WAMP** (Windows, Apache, MySQL, and Python ) and **LAMP** (Linux, Apache, MySQL, and Python) architecture.
* Designed Database **Schema Design** and defined relationships between tables.
* Knowledge in **UNIX / LINUX** and **Shell Scripting**.
* Familiar with **RAD** (Rapid Application Development), and **JAD** (Joint Application Development) process.
* Good knowledge in Data Analysis, Requirement Analysis, statistical and Graphical Analysis of data, Business Modelling and Data Migration.
* Knowledge of creating Unified Modeling Language **(UML)** Diagrams such as Use Case Diagram Activity Diagrams, Class Diagrams and Sequence Diagrams.
* Able to understand various data mining and statistical analysis
* Able to understand various data structure and common methods in data transformation
* Excellent pattern recognition and predictive modeling skills
* Identify, analyze, and interpret trends in complex data sets
* Compile data for progress reports
* Correlation and Regression analysis of data
* Excellent verbal and communication skills
* Strong collaboration , delegation, and leadership skills

**Technical Skills**

|  |  |
| --- | --- |
| Operating Systems | MS Windows, Linux/ Unix, Ubuntu, |
| Programming Languages | Python, Core Java, C# .Net, Linux, HTML,CSS |
| Databases | MS SQL Server, MySQL, NoSQL, MS Access, |
| IDE | MS SQL Server Management Studio 2014, Eclipse, Notepad ++, Microsoft visual studio 2010 |
| BI Reporting Tools | Tableau, SAS, Excel, XL Minor, Power BI, MS Visio |
| ETL Tools | SSIS, SSAS, SSRS, Informatica |
| SDLC Methodologies | Agile Scrum, Waterfall |
| Data Warehousing | Microsoft OLAP, and OLTP services |

**Professional Experiences:**

**PennyMac, Irving, Texas Jan 2017 – present**

**Data Analyst**

PennyMac is a leading national mortgage lender and loan service provider with innovative mortgage solutions to make is easier for customers to purchase and refinance for home that helps homeowners with their home financing needs. PennyMac loan services needed a more responsive IT structure and responsive paradigm that will allow rapid application development, easy to online access to data and data inconsistencies. This project was involved in validation activities for Customer Management Service to support the data, reporting, and analytics needs as well as establishing processes and measurement protocols for developing solutions for clients.

**Responsibilities:**

* Identifying source codes and data quality using SQL queries
* Used query analyzer, Execution plan to optimize SQL Queries
* Performed data analysis of existing data using SQL and prepared reports showing status, issues, resources requirements , risk and data dependencies
* Extract data from MS SQL Server and create MS Excel and reports for business specific data validation
* Design and develop the logical and physical data models to support the Data Mart and Data Warehouse
* Developed and maintain data dictionary to create metadata reports for technical and business purpose
* Involved in JAD and RAD sessions with business as well as Technical teams to identify the business rules for requirements and documentation
* Analysing data processing implementation data mart applications using Informatica and understanding of ETL workflows and ETL Mapping
* Gathered the requirements , Develop Process Model, Business policies and modification of business requirement documents
* Develop Custom data models and algorithms to apply to data sets
* Develop processes and tools to monitor and analysis model performance and data accuracy
* Coordination with different functional teams to implement models and monitor outcomes
* Minimize and analyze databases to drive optimization and improvements marketing techniques and business strategies
* Involved in projects that require data acquisition. Data modeling, and report building activities and delivered on time
* Used Data visualization tools to see and understand trends, outlines and pattern in data
* Develop and maintain operating procedure and documentation for reports and the SSRS infrastructure

**Webgility Inc., SFO, CA July 2015 – Nov 2016**

**Data Analyst**

Webgility Inc. is a leading e-commerce solutions company that provides integration software and services for eCommerce business to helped thousands of eCommerce business streamline their order fulfilment, inventory management, and accounting procedures. My role was involved analyzing and reporting data to integrate the various processes.

**Responsibilities**

* Coordinating with Business analysts and users to understand business and function requirements to implement into an ETL design document
* Monitoring the Data Quality and maintaining Data integrity to ensure effective functioning of the department
* Worked with DBA team to create physical data model from logical data model
* Designing Data Warehouse to store the data from the OLTP systems
* Implementing and testing of application data standards
* Wrote a SQL queries to validate source data
* Created ad hoc reports and pivot tables in excel
* Performed SQL Validation to verify the data extracts integrity and record counts in database tables
* Involved with data model and reporting requirements for Tableau Reports
* Designed and developed Data Models and Data Marts to support the Business Intelligence Data Warehouse
* Used Data visualization tools to see and understand trends, outlines and pattern in data Involved in SDLC process and its phase : Requirement gathering, Analysis, Design, Implementing, Testing , Deployment and maintenance
* Create functional specification documents and Data Mapping Analysis for system integrations
* Responsible for modeling complex scientific problems, discovering insights and identifying opportunities using statistical, algorithm, mining and visualization techniques

**Serve Solution IT Homes Pvt. Ltd – Kathmandu , Nepal Feb 2013 to May 2015**

**Data Analyst / Software Assistant**

Serve Solution IT Homes Pvt. Ltd is one of the leading software company in Nepal, provides the website designing and development, mobile Apps, Web based Apps and IT services to support the business needs. These projects were involved in Library Management System, and role was to produce reports, spotting patterns, collecting data and setting up infrastructure.

**Responsibilities:**

* Interfaced with business analysts, developers and technical support to determine the best requirement specifications.
* Collaborated with team members to create applications system analysis based upon client requirements.
* Software Assistant (Designing and Developing)
* Develop testing routines and procedures
* Software Development Life Cycle ( SDLC) includes requirements, analysis, development, deployment and Testing of an application for business outputs.
* Identifying source codes and data quality using SQL queries
* Used query analyzer, Execution plan to optimize SQL Queries
* Involved in JAD and RAD sessions with business as well as Technical teams to identify the business rules for requirements and documentation
* Analysing data processing implementation data mart applications using Informatica and understanding of ETL workflows and ETL Mapping
* Gathered the requirements , Develop Process Model, Business policies and modification of business requirement documents
* Develop Custom data models and algorithms to apply to data sets
* Develop processes and tools to monitor and analysis model performance and data accuracy
* Used Data visualization tools to see and understand trends, outlines and pattern in data
* Monitor computer system performance to ensure proper operation.
* Implemented designs, including experimentation and multiple iterations.
* Directed software design and development while remaining focused on client needs.
* Worked effectively with design teams to ensure software solutions elevated client-side experience.

**Olympus Medical Systems India Pvt. Ltd – Gurgaon, India May 2011– Dec 2012**

**Data Analyst / IT Analyst**

Olympus India is a wholly owned subsidiary of Olympus Corporation Asia Pacific Limited. OMSI deals primarily in manufacturing and services in medical instruments, energy products, Bio-medical services etc. My project was involved in system integration and Data Management Services to analyze, maintaining and support the data to achieve the business goals.

**Responsibilities:**

* Lotus Notes 8.5: Installation, Configuration, Troubleshooting
* Assist users and business teams to accelerate operations, enhance productivity and help users make better-informed decisions using LOTUS NOTES 8.5
* Performed Trend Analysis of data and Automation of reports.
* Identifying source codes and data quality using SQL queries
* Used query analyzer, Execution plan to optimize SQL Queries
* Involved in JAD and RAD sessions with business as well as Technical Teams
* Acquire, Normalize and analyze multi-sector medical data
* Display data, Analysis to help clients make decisions
* Support other healthcare planning tasks as assigned
* Information Security: Users Authentication, Email Security, Web Security etc.
* Remote Access Control: Technical support to Team viewer, Amy admin.
* IT management system: Develop computer or Information systems.
* Analyze data to inform operational decisions or activities.
* Demonstrate growing expertise utilizing healthcare planning metrics and emerging trends to define operational and resource requirements
* Assisted end users in the access and implementation of administrated programs and equipment's.