**PROFESSIONAL SUMMARY:**

* 7+ years of work experience in the Data Analysis, Data Warehousing, Data Modeling, Data Mapping, Data Profiling, Data Lineage, Informatica **Power Center Design, Power BI, Tableau, SQL, Python, R and client server applications**.
* Experience in Designing, developing, testing, and implementing **HL7** interfaces. Good understanding of **SDLC** (methodology) with waterfall and Agile methodologies.
* Proven ability to comprehend the client's needs and provide project planning, project definition, requirements definition, analysis, design, testing, system documentation, and user training support.
* Strong background in data analysis, data profiling, data migration, data conversion, data quality, data integration, metadata management services, and configuration management.
* Experienced in Installation, Configuration, and Administration of Informatica Data Quality and Informatica Data Analyst.
* Good working understanding of the Health Level Seven standard in healthcare (HL7).
* A working knowledge of **HIPAA** **EDI** transactions like 835, 837 (P, D, I), 276, 277, and 278.
* Good understanding of HIPAA Standards, EDI Transactions (4010), EHR/EMR, HIE, and HIX. Excellent knowledge of Medicare, Medicaid, Medicare Advantage, **Medigap**, and **EDI**.
* Extensive expertise building database schemas including the Snowflake and Star schemas used in relational, dimensional, and multidimensional modeling, as well as OLTP/OLAP systems and E-R modeling.
* Extensive experience in Strategic development of a Data Warehouse and in Performing Data Analysis and Data Mapping from an Operational Data Store to an Enterprise Data Warehouse.
* Expertise in Data modeling (Dimensional & Relational) concepts like **Star-Schema Modeling, Snowflake Schema Modeling, Fact and Dimension tables.**
* Designed and implemented AWS Cloud architecture for multiple clients
* Implemented and maintained **AWS** services **(EC2, S3, RDS, Redshift, Lambda, Athena, EMR, Glue, CloudWatch, CloudFormation, CloudTrail, IAM)**
* Worked with clients to identify their needs and provide customized solutions
* Developed and maintained infrastructure as code using AWS CloudFormation.
* Strong knowledge of various **ETL** tools, including Power BI and Tableau, for data analysis, data migration, data cleaning, data transformation, data integration, data import, and data export.
* Knowledge of the **MMIS** (Medicaid Management Information System). Knowledge of the **MMIS's** various subsystems, including Explanation of Benefits (**EOB**), Provider, Recipient, Procedure Drug and Diagnosis (**PDD),** and Claims.
* Expert Knowledge of **SQL**, Integration Services (SSIS), Reporting Services (**SSRS**) and Analysis Services (**SSAS**).
* Proven ability to create intricate **SQL** queries involving multiple tables, stored procedures, and inner and outer joins.
* Knowledge of building sophisticated stored procedures, indexed views, triggers, and functions that help with data manipulation and storage consistency. Experience in **SQL** **Server** **DTS** and **SSIS** (Integration Service) package design, constructing, and deployment.
* Having knowledge of improving and deploying **SSIS** packages from development servers to production servers.
* Knowledge of creating, testing, and deploying Tableau reports using Tableau Server.
* Experience using Tableau to manipulate data and creating metrics, attributes, charts, filters, hierarchies, trend lines, sets and groupings, data blending, parameters, and complex calculations.
* Experience building dashboards using the **Power BI** and **Tableau** visualization tools as well as **MDX** and **DAX** expressions, Power BI Power Pivot, and Power integrated with SharePoint.
* Carrying out a requirement using Rational RequisitePro to track development, requirements gathering sessions, feasibility studies, Impact Analysis, and a structured approach to organizing software requirements
* Experience with Adhoc reporting, Parameterized, Custom Reporting using **SSRS** for daily reports.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Business Skills** | Business Process Analysis, Requirement Gathering, and Use Case Modeling, SDLC |
| **Methodologies** | Agile, SCRUM and Waterfall |
| **Tools** | JIRA, Tableau, Power BI, MS Office: Word, Access, Advanced Excel, PowerPoint, MS Project |
| **Programming Languages** | SQL, Python and R programming. |
| **ETL Tools:**  | Informatica, Talend Open Studio & Talend Enterprise Platform (V6.3.1/6.4/7.0/7.1.1) for Data management |
| **Reporting Tools** | Tableau, Power Bi Dashboard, Excel Dashboard |
| **Business Intelligence Tools** | SSIS, SSRS, SSAS, Microsoft Power BI, Tableau Desktop, Excel Tool Kit, Visual Studio |
| **Technology Expertise** | Data Analytics, Social Media Analytics, Business Analytics, Data Science, Data Mining, Machine Learning, and Big Data, Data Visualization, Databases, Microsoft SQL Server (MySQL). |
| **Documentation Tools** | Office365 – Word, Excel, PowerPoint, Outlook, Access  |
| **Cloud Services** | AWS |

**EDUCATION DETAILS:**

 **Master of Science, Industrial Engineering (Data Analytics) |** Northeastern University, Boston, MA

 **Bachelor of Science in Mechanical Engineering** | University of Pune, India

**PROFESSIONAL EXPERIENCE:**

**Client: Wayfair, Boston, MA Mar 2022 – May 2023**

**Role: Sr. Data Analyst**

**Project Description:** Wayfair is a leading e-commerce company specializing in home goods and furniture. As a Data Analyst at Wayfair, my role was analyzing large datasets, extracting valuable insights, and providing actionable recommendations to drive business growth.

**Responsibilities:**

* Responsible for providing data analysis that focused on improving user experience and optimizing user retention.
* Wrote complex ad-hoc MySQL queries involving correlated subqueries, window functions and common table expressions to track user activity metrics such as retention rate and daily active user. Optimized existing queries to run faster on large dataset.
* Designed and maintained MySQL databases, and created pipelines using user-defined functions and stored procedures for daily reporting tasks.
* Developed dashboards in Tableau and present data to track KPIs and product performance using data from various sources such as MS Excel, AWS S3, AWS RDS, AWS Redshift, JSON and XML.
* Spotted and analyze trends in user activity data, identify underperformed user segmentation report insight to stakeholders.
* Designed metrics for A/B testing, creating dashboards in Tableau to monitor test processes, analyzing test results, interpret and give recommendations to stakeholders.
* Performed statistical analysis such as hypothesis testing causal inference and bayesian analysis.
* Communicated between the business, product manager and data engineers to ensure the data quality. Built ETL pipelines to retrieve data from NoSQL databases and load aggregated data into the analytical platform.
* Managed data storing and processing using big data tools such as Hadoop , HDFS , Hive and Spark . Developed Python scripts to automate data validation and data cleaning processes such as deduplicating and checking data consistency using Pandas and Apache Airflow.
* Implemented scalable machine learning models Random Forest using SparkML and Python to predict customer churn.
* Applied advanced classification models such as XGboost, SVM, Neural Network to train data using Python packages such as Scikit-learn.
* Defined metrics to estimate impact of new features and give recommendations for business decisions based on data analysis
* Analyzed DB discrepancies and synchronized the Staging, Development, UAT and Production DB environments with data models.
* Reviewed and revised data models for soundness of data structures and adherence to client standards.
* Restructured Logical and physical data models to respond to changing business needs and to assured data integrity using Power Designer.
* Created naming convention files and co-coordinated with DBAs to apply the data model changes.

**Environment**: SAS, flat files, Excel, Oracle, Control M, MSSQL, Teradata, Linux, Windows, SQL, SAP BO, AWS, Tableau, Excel Pivots, Multivariate Regression, Linear Regression, Logistic Regression, PCA, Random Forest. Models, Matrix factorization models, Bayes collaborative models, Python, SSIS, ETL, Tableau.

**Client: Sequoia Health Services, Redwood City, CA Dec 2020- Feb 2022**

**Role: Sr Data Analyst**

**Project Description:** Sequoia Health Services Company is a healthcare organization dedicated to providing exceptional patient care. As a Data Analyst at Sequoia Health Services, my role was collecting, analyzing, and interpreting healthcare data to support strategic decision-making and improve patient outcomes.

**Responsibilities:**

* Worked with Medicaid Management Information System (MMIS), Medicare or Health Insurance Claims Processing system.
* Created Process Work Flows, Functional Specifications, and responsible for preparing Software Requirement Specifications (SRS), Functional Specification Document (FSD)and Use Cases.
* Worked on implementation and support of HIM (Health Insurance Marketplace), HIX (Health Insurance Exchange) Applications.
* Performed Data mapping and data translation in HL7 version.
* Working on Process Work Flows, Functional Specifications, and responsible for preparing Software Requirement Specifications (SRS), Functional Specification Document (FSD)and Use Cases.
* Accountable for producing Functional Requirement Specification (FRS) documents and Business Requirement Documents (BRD) for EMR clinical applications.
* Integrated three separate vendor’s job lead streams into a single AWS cloud pipeline utilizing AWS S3, SQS, DynamoDB, Lambda, Oracle RDS (data mart), MySQL, Java and Python micro services.
* Supported the CMS Medicare Part B program, Medi-Cal program, and Blue Shield of California by providing technical, analytical, testing, and implementation support to existing interfaces.
* Developed SSIS packages using a variety of transformations, including lookup, derived columns, condition splitting, data conversion, aggregate, merge join, and sort, as well as execute SQL tasks, data flow tasks, and package tasks, among others, to produce the reports' underlying data and export cleaned data from Excel spreadsheets, text files, MS Access databases, and CSV files to data warehouses.
* SSRS and MS Power BI were used to create dashboards and ad-hoc reports for the senior management team to analyze.
* Used MDM tool to support Master Data Management by removing duplicates, standardizing data (Mass Maintaining), and incorporating rules to eliminate incorrect data and filter data as per requirements.
* Senior level SQL query skills Oracle and TSQL in analyzing and validating SSIS ETL database data ware house processes.
* Documented logical, physical, relational and dimensional data models. Designing the Data Marts in dimensional data modeling using star and snowflake schemas.
* Database table review and data mapping for large scale data conversion project Oracle database to Mainframe.
* Created Data Flow Diagrams and Process Flow Diagrams for various load components like FTP Load, SQL Loader Load, ETL process and various other processes that required transformation.
* Worked on Performance, Tuning and loading data for fast access of reports in Client/Database. Server balancing, business Rules Implementation, Metadata, Data Profiling.

**Environment**: SAS, flat files, Excel, Oracle, Teradata, Linux, Windows, SQL, SAP BO, Tableau, Excel Pivots, VLOOKUP, PCA, AWS, Python, ETL, Multivariate Regression, Linear Regression, Logistic Regression, PCA, Matrix factorization models.

**Client: Actavis Pharmaceutical, Parsippany, NJ Nov 2019 – Nov 2020**

**Role: Data Analyst**

**Project Description:** Actavis Pharmaceutical Company is a leading global pharmaceutical company committed to improving health and well-being through the development of innovative medicines. As a Data Analyst my role is analyzing pharmaceutical data, generating insights, and supporting evidence-based decision-making processes.

**Responsibilities:**

* Involved in gathering business requirements from the Subject matter experts (SMEs), conducting JAD sessions with stakeholders and documented them in a format that could be reviewed and understood by both business and technical teams.
* Performed as a business and technical analyst by translating user requirements into practical/integrated process-based solution
* Attended trainings such as EDC-Rave, Oracle Argus Suite and Electronic Document Management Systems (EDM), Change Management and Control, Validation with respect to a specific project
* Good experience using Microsoft SharePoint for document management and as a common repository for project documents and deliverables.
* Wrote BRD, FRD, use cases, test scenarios, test cases for testing the functional requirement.
* Involved in creating data mapping specifications from the Datawarehouse to SAS, Cognos and MicroStrategy DataMart’s.
* Worked along with the Project Manager and other BAs to develop various project plans to track down the time and progress of various projects using MS Project.
* Wrote PL/SQL statement and stored procedures in Oracle for extracting as well as writing data.
* Prepared basic design diagrams including flow charts, data flow diagrams using MS Visio following the UML conventions.
* Wrote Functional specifications for each of the ETL processes, working in close co-ordination with business users and development leads.
* Managed the planning and requirements phase for the implementation of a Laboratory Information Management System (LIMS).
* Reviewed Stored Procedures for reports and wrote test queries against the source system (SQL Server) to match the results with the actual report against the Data mart (Oracle).
* Involved in Analyzing and successfully completed the full product development life cycle of a high visibility, high throughput screening Laboratory Information Management System (LIMS).
* Utilized corporation developed Agile SDLC methodology. Using Scrum Work Pro and Microsoft Office software to perform required job functions.
* Used XML extensively to communicate with web service component and to populate data at the client side
* Involved in mentoring specific projects in application of the new SDLC based on the Agile Unified Process, especially from the project management, requirements and architecture perspectives.
* Worked closely with Procurement group in vendor selection process for Veeva implementation partner for summarizing the strategic goals of the project, provided high level requirements in Request for Proposal RFP and responded to questions from vendor
* Created RUP activity diagrams and sequence diagrams to analyze the requirements and recommend solutions.
* Clarified QA team issues and reviewed test plans and test scripts developed by QA team to make sure that all requirements will be covered in scripts and tested properly.

**Environment**: HL7, Oracle 11g, Hadoop 2.x, Hive, HDFS, Pig Latin, Spark/Pyspark/MLlib, Python 3.x (NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn), GitHub, Linux, Machine learning algorithms, Tableau, Alteryx 11.

**Client: Cipher Cloud, India Nov 2017 to July 2019 Role: Data Analyst**

**Project Description:** Cipher Cloud Company is a leading provider of cloud security and data protection solutions. As a Data Analyst at Cipher Cloud, my role was responsible for analyzing and interpreting complex data sets to extract meaningful insights and support data-driven decision-making processes.

**Responsibilities:**

* Identify business, functional and technical requirements through meetings and interviews and JAD sessions.
* Define the ETL mapping specification and design the ETL process to source the data from sources and load it into DWH tables.
* Designed the logical and physical schema for data marts and integrated the legacy system data into data marts.
* Integrate Data stage Metadata to Informatica Metadata and created ETL mappings and workflows.
* Designed mapping and identified and resolved performance bottlenecks in Source to Target, Mappings.
* Developed Mappings using Source Qualifier, Expression, Filter, Look up, Update Strategy, Sorter, Joiner, Normalizer and Router transformations.
* Involved in writing, testing, and implementing triggers, stored procedures and functions at Database level using PL/SQL.
* Developed Stored Procedures to test ETL Load per batch and provided performance optimized solution to eliminate duplicate records.
* Provide the team with technical leadership on ETL design and development best practices.

**Environment:** SQL, Python, Tableau, Power BI, ETL, PL/SQL, JAD, DWH tables, Source Qualifier, Expression, Filter, Look up, Update Strategy, Sorter, Joiner, Normalizer, Router transformations.

**Client: CA Technologies Pvt Ltd, India Oct 2015 to Oct 2017 Role: Jr. Data Analyst**

**Project Description:** CA Technologies Pvt Ltd is a global technology company specializing in software and services. As a Data Analyst at CA Technologies Pvt Ltd, my role was analyzing and interpreting complex datasets, driving data-driven insights, and supporting business decision-making processes.

**Responsibilities:**

* Proficient in SQL and Python.
* Strong analytical skills and experience with data visualization tools such as Tableau and Power BI.
* Experience with statistical analysis and machine learning techniques.
* Familiarity with database management and data warehousing.
* Excellent communication skills and ability to work collaboratively in a team environment.
* Analyzed large datasets using SQL and Python to identify trends and patterns.
* Developed and maintained reports and dashboards using Tableau and Power BI.
* Conducted statistical analysis to support business decisions.
* Collaborated with cross-functional teams to gather requirements and communicate insights.
* Maintained and updated databases and data warehouses.

**Environment:** SQL, Python, Tableau, Power BI.