**PERFORMANCE SUMMARY:**

Data-Driven professional with 10 Years solid track record of proving analytics support to translate data into a meaningful insight to drive strategy, action, and decision-making through data engineering, data modeling and frameworks to solve challenging business problem.

* Seasoned professional in implementing solutions that improve enterprise effectiveness. Possess current and legacy experience in business systems analysis, requirements definition and specification, system design, process modeling, and software development. Cross-functional, enterprise-wide workflow experience with broad experience in business applications.
* Excellent experience in Data Analyst, Data Mining, Data Cleansing, Business Analystics, Project Management and Scrum Master.
* Working with large data sets of Structured and Unstructured data, Data Acquisition, Data Validation, Predictive Modeling, Statastical Modeling, Data Modeling, Data Visualization, Data Reconciliation, Web Crawling, Data Cleansing and Web Scraping.
* Excellent knowledge of Machine Learning, Mathematical Modeling and Operations Research. Comfortable with R, Python, SAS, Weka, MATLAB, Relational databases. Deep understanding & exposure of Big Data Eco - system.
* Experienced in Dimensional Data Modeling experience using Data modeling, Relational Data modeling, ER/ Studio, Erwin, and Sybase Power Designer, Star Join Schema/Snowflake modeling, FACT & Dimensions tables, Conceptual, Physical & logical data modeling.
* Hands on experience in implementing LDA, Naive Bayes and skilled in Random Forests, Decision Trees, Linear and Logistic Regression, SVM, Clustering, neural networks, Principle Component Analysis.
* Expertise in managing entire data science project life cycle and actively involved in all the phases of project life cycle including data acquisition, data cleaning, data engineering, features scaling, features engineering, statistical modeling (decision trees, regression models, neural networks, SVM, clustering), dimensionality reduction using Principal Component Analysis and Factor Analysis, testing and data visualization.
* Experienced with Integration Services (SSIS), Reporting Service (SSRS) and Analysis Services (SSAS).
* Extensive experienced on ERModeling, Dimensional Modeling (StarSchema, SnowflakeSchema) and Data warehousing and OLAP tools.
* Expertise in data base programming (SQL, PLSQL) XML, DB2, Informix, Teradata, Data base tuning and Query optimization.
* Experience in designing, developing, scheduling reports/dashboards using Tableau and Cognos.
* Expertise in performing data analysis and data profiling using complex SQL on various sources systems including Oracle and Teradata.

**HIGHLIGHTS:**

* Hands on experience and understanding of Data warehousing projects using Informatica.
* Posed strong analytical, technical, organizational, communication, interpersonal and strong customer service skills.
* Translated vendor specific business requirement needs to detail-oriented technical specifications.
* Designed and develop data warehouse(s) and ETL solutions.
* Designed and develop scalable BI dashboards and reporting solutions.
* Developed and executed database queries and conduct analyses.
* Created visualizations and reports for requested project.
* Working knowledge of Tableau Reporting tool.
* Knowledge in SQL, UNIX, Batch application scheduling.
* Programming analysis/analysis experience in SQL, SAS on the Windows platforms.
* Experience in performing ad-hoc queries and User Acceptance Tests (UAT) for various application and reports on a daily/weekly or monthly basis excellent experience in working and dealing with client management team.
* Experience with 3rd party data extraction which is used to build Credit and Risk models, during which actively involved in communication and status reporting between client and vendor.
* Analyzed the 3rd party data to compare it with the referential data, to identify exception or in accuracies.
* Generated daily, weekly and monthly reports using Proc Report and SQL.
* Experience in using SAS to read, write, import and export to another data file formats, including delimited files, Excel, PDF and access tables .
* Involved extensively in Data Extraction, Transformation, Loading, Analysis for Financial and Healthcare industries.
* Experience in Creating process Flow Diagrams and Technical Specification Document Diagrams, BRD etc.
* Worked extensively on SQL Server, MS Access Database & Creating shell scripts.
* Have Experience in delivering the role of a change, escalation accountability, identifying and presenting for new business scopes and team Management.
* Heave been involved in Production, Migration and Deployment activities.
* Working knowledge of Problem Management, Wealth Management, Asset Management, Incident management with different KPI reporting to client.
* Thorough understanding of finance, marketing, production and personnel management.
* Talented with the data management policies, procedures and widespread technical tools.

**TECHNICAL SKILLS:**

**Languages:** SQL, R, Python, T-SQL, PL/SQL, SAS, VBA (Excel), C/C, VC, Java, Shell Script, SQL, PL/SQL, UML, HTML, XML, VB.Net.

**Database Software:** MS SQL Server, MS-Access, MySQL, Hadoop, AWS Redshift/ Athena/ Airflow.

**Analytic Tools:** MS Excel (Functions, Charts, Macros, Pivot Table), Tableau, Power BI, Alteryx, SSIS, Informatica.

**Tools and Utilities:** Visual Studio Ultimate 2010,Team Foundation , Test Manager, Test Complete, QTP ,Rational Rose, Websphere, IBM Director and Real VNC remote server and workstation control , PGP Encryption, WinBatch windows automation , MS Office Professional Suite, MS-Project, BackOffice, Lotus SmartSuite, BrioQuery Explorer, Cognos Impromptu Business Intelligence , CognosPowerPlay Business Intelligence , FOCUS Six for Windows Business Intelligence , Hummingbird Business Intelligence Suite, InfoMaker Business Intelligence , Lotus Notes, Norton Utilities, FreeLance, MS Publisher, Adobe Photoshop, Corel Flow, Test Manager, TFS, Rally, JIRA, Version One, VisTa, File Man, Cache, Automated Job Control System (Autosys) .

**3rd Party Tools:** Quest TOAD, Veritas/ Tivoli NetBackup, SQL Server Enterprise Manager, Putty, SecureCRT, SSH Secure.

**Agile Tools:** Rally, JIRA, Version One, TFS

**Operating System:** Sun Solaris 7, 8 and 9, HP-UX 11.0, Red Hat Linux as 2.1, RHES 3.0/4.0, IBM-AIX 4.3/5L, SuSe Linux SLES 8/9, Win 7,8/.

**Hardware:** SUN Enterprise Server E350 E450 v490, SUN Storage 3310 3510, HP 9000, DEC-ALPHA DS 20E,IBM RS6000, IBM Netfinity, Dell Power Edge Servers, Citrix Servers, Compaq servers.

**RDBMS:** Oracle 10gR2, Oracle 9iAS, Oracle 9i RAC, Oracle 8i/8x, DB2, MS-SQL 6.5/2000.

**Oracle Tool:** Oracle Enterprise Manager 10gOEM , Export/Import, RMAN, Net 8 Assistant, TKPROF, Explain plan, Statspack, Dataguard, AWR ,ADDM, LogMiner, Erwin

**EDUCATION QUALIFICATION:**

* Bachelors of Computers Applications from Thiruvalluvar University - 2009.

**PROFESSIONAL EXPERIENCE:**

**Client:** ADP, Norfolk, VA. **From:** Nov 2019 - Present.

**Role:** Data Analyst / BI Business Analyst

**Responsibilities：**

* Worked on data cleaning and reshaping, generated segmented subsets using Numpy and Pandas in Python
* Wrote and optimized complex SQL queries involving multiple joins and advanced analytical functions to perform data extraction and merging from large volumes of historical data stored in Oracle 11g, validating the ETL processed data in target database
* Good understanding of Teradata SQL Assistant, Teradata Administrator and data load Experience with Data Analytics, Data Reporting, Ad-hoc Reporting, Graphs, Scales, Pivot Tables and OLAP reporting.
* Identified the variables that significantly affect the target
* Applied various machine learning algorithms and statistical modeling like decision tree, logistic regression, Gradient Boosting Machine to build predictive model using scikit-learn package in Python
* Developed Python scripts to automate data sampling process. Ensured the data integrity by checking for completeness, duplication, accuracy, and consistency
* Generated data analysis reports using Matplotlib, Tableau, successfully delivered and presented the results for C-level decision makers
* Perform the necessary Data Analysis, Data Cleansing, SQL Scripts, Data Integration, Data Conversion rules, Document business rules and other Requirements Artifacts.
* Produced analysis to ensure data quality always meets standards, by monitoring performance, diagnosing issues, and creating solutions. Performed Data Reconciliation to ensure the data correctness of the migrated data
* Created efficient SQL queries in an AWS RDS that performed routine audit analysis on product/sales data saving hundreds of staff hours
* Worked with business partners, operations teams, data scientist, product, and more to ensure insights inform broader strategic initiatives
* Design, develop, and implement data infrastructure and pipelines that collect, connect, centralize, and curate data from various internal and external data sources
* Collaborate with the data scientists to implement predictive algorithms and models using latest technologies and build out data features
* Create automated systems/tools to configure, monitor, and orchestrate the data infrastructure and the data pipelines
* Mine and analyze data to drive optimization and improvement of product development, marketing techniques and business strategies
* Analyze data to answer business questions and produce data-driven stories that reveal key insights into behavior, using data visualization
* Work in technical workstreams for continuing the build of our data platform (AWS) that his includes data mart, data lake and reporting solutions
* Develop and maintain data models, reporting systems, data management systems, dashboards
* Manage and optimize processes for data intake, validation, visualization and flexibility
* Support testing of deliverables and provide data analysis as needed
* Anticipate future demands of initiatives related to this space and provide thoughtful input into planning and solutioning processes
* Build out a big data distributed architecture capable of efficiently processing terabytes of genomic and clinical data
* Build automated and production-quality data processing systems
* Lead technical workstreams for continuing the build of our data platform (AWS) that his includes data mart, data lake and reporting solutions
* Anticipate future demands of initiatives related to this space and provide thoughtful input into planning and solutioning processes.
* Performed business Analysis , validation and testing in SQL across Dev, UAT , iota , Consumer and beginning Balance Environment and updates in Data Model
* Performed Data validation and testing for Clean Run , Mock Run and End to End Run , EPF call and State message confirmation Testing and validation Load Specification and Report specifications of Validating Requirements and Producing Test Scenarios and Created Testing artifacts (Test design, Test scripts, and Test implementation)
* Contact person for with Trading, Sales, Finance, and Technology teams to assist with day to day business needs
* Applied Change request/bug fixes for existing functionalities
* Prepared Project plan, Create WBS, Prioritize tasks, Task allocation and Issue resolution for the project and managed Development, UAT and testing team to senior management.
* Developing scalable, high-performance software, with a deep understanding of algorithm design principles and data processing pipelines.

**Client:** Delta Dental of CA, SFO, CA. **From:** Jan 2018 – Oct 2019.

**Role:** Data Analyst/ BI Business Analyst

**Responsibilities：**

* Performed detailed data analysis, developed automated reports for hardware and software configurations, quotes, orders based on different parameters such as regions, BOM, currency, convert to order, market conditions etc.
* Defined KPIs and developed dashboards to track the progress of feature rollouts and the long-term success of financial analytics tools
* Perform statistical data analyses, mining of data, and UAT testing to ensure the continuity of a client’s mortgage servicing operation
* Collaborated with management teams to priorities business requirements and to locate and define opportunities for process improvement
* Conducted research to acquire and analyze data from both primary and secondary data sources to update the databases tables.
* Devised effective methods of combining SQL, Excel, Access, TOAD, Oracle and SQL Server for data reconciliation and verification of data migrated to the data warehouse
* Led the selection, implementation, architecture and maintenance of data warehouse, analytics platform, and BI tools
* Work with large sets of data in many tools (SQL/Python/Excel) to derive and communicate insights across client organizations
* Analyze data to answer business questions and produce data-driven stories that reveal key insights into behavior, using data visualization
* Participate in Database Design/Modeling, Data Mapping, Data Cleansing, Functional test cases
* Documented BRD FSD, Use cases , UI Mockup, User guide , test cases and test scripts
* Wrote SQL queries for reporting and data manipulations validated technical designs created by IT developers against functional specifications.
* Created data models with entity-relationship-attribute and star schema with Kimball methodologies
Integrating the sub system Subsystems of ETL Extracting Data, Cleaning and Conforming Data, Delivering Data for Presentation, normalization and de-normalizations Metadata and External Data, arching external data and Managing the ETL Environment for Data Mining, Data Mart, OLAP
* Developed data flow analysis, data analysis of feasibility study of ER models for database design for Sybase.
* Created data models with entity-relationship-attribute and star schema ,Integrating the sub system Subsystems of ETL Extracting Data, Cleaning and Conforming Data, Delivering Data for Presentation, normalization and de-normalizations Metadata and External Data, arching external data and Managing the ETL Environment and formulating Conceptual ,Interim and prototypes.
* Analyze data feeds, perform parallel testing, ensure data accuracy and work closely with technology to ensure the timely and accurate operation of risk models and reporting systems
* Supported client in their forward mortgage portfolio by understanding downstream user’s data needs, creating business requirement documents and finalizing analytics deliverables.
* Performed data gap lineage study and proposed optimized strategic findings across external and internal domains.

**Client:** Genex Services, Wayne, PA.  **From:** May 2015 - Dec 2017.

**Role:** Data Analyst/ Business Analyst

**Responsibilities：**

* Designed technical implementations that account for data nuances in partnership with business users from various functional domains. e.g. claim adjustment logic, mapping of claim level attributes from service level details, data cleansing, and enrichment.
* Gathered, managed and refined requirements from different modules, integrated key monitors including defects, parametric, rates, inventory, and cycle time in dashboard development for different modules.
* Extracted data from variety of sources such as MySQL, Oracle 11g, MS SQL server etc. and analyzed large data sets using tool such as SQL, SAS, JMP.
* Managed project by leading team for successful delivery of and an application by customizing, deploying Oracle SQL Pathfinder tool used for querying and joining data simultaneously from different databases.
* Performed data visualization for different modules using Tableau and ONE Click method. Worked with different teams on defining and representing key parameters etc.
* Worked with various domain leads, analysts and IT staff to design, develop and enhance data warehouse models, business intelligence solution, scripts, procedures and metadata for supporting team’s analytic needs
* Provided ongoing support for query optimization, client data extract, transform and load process by responding to inquiries and ad-hoc requests from the various domain, business users and over 200+ users
* Conducted various research studies using medical data. e.g. Spend Teardown Analysis, Sweet Spot Analysis, Payor Strategy Analysis etc.
* Delivered client data refreshes/onboarding for more than 8 payer clients, including custom ETL code to account for client-specific business logic to ensure the most update-to-date and accurate data possible
* Automated QA development using python, HiveQL and Jinja templating to decrease data validation turnaround time.
* Translated validation checks from T-SQL language to Hive language in to adapt existing processes to the Hadoop environment
* Comparing it with the referential data to identify the differences and accuracy issues. Accordingly, different Adjustment and enrichment logics were applied to transform the data
* Analyzing business user’s issues/tickets and provide the resolution of the same with temporary fix while analyzing the permanent fix for the same
* Investigating Data Quality issue raised by users and Operations and fixing the same so that the report is fine as per user / operation requirement
* Designed interactive dashboard using Tableau to present data nuances and finding so reports to relevant stakeholders

 **Client:** Orpine Systems, India. **From:** July 2012 – April 2015.

**Role:** Business Data Analyst

**Responsibilities：**

* Developed data validation check for processing various formatted data files. e.g. employee roster, enrollment plan and benefit election
* Collaborated with various user groups and project owners to implement online enrollment configurations for both new and existing clients
* Developed ETL process in SSIS to clean and transform internal and external data extract
* Identifying the flaws in the system and providing proactive solutions
* Optimizing existing SQL queries performance by testing and reviewing query optimization plan
* Involved in Defect prevention, Code Optimization activities and Automation activities
* Data validation & Component validation
* Analyzing business user’s issues / tickets in Salesforce and provide the resolution of the same with temporary fix while analyzing the permanent fix for the same
* Investigating Data Quality issue raised by users and Operations and fixing the same so that the report is fine as per user / operation requirement
* Generated daily, weekly and monthly reports using SQL
* Involved extensively in Data Extraction, Transformation, Loading, Analysis for health plan enrollment
* Experience in Creating Process Flow Diagrams and Technical Specification Document Diagrams, BRD etc.
* Worked extensively on SQL Server, MS Access Database & Creating shell scripts
* Knowledge with the data management policies, procedures and widespread technical tools
* Strong logical, assessment and interpretation skills
* Excellent planning and administrative abilities
* Ability to implement control the executed tasks with the planned activities
* Once the issues are identified, root cause analysis will define the gaps at control levels. Those gaps are presented to the management for remediation
* Being a part of CRM, the work exposure starts from Order entry till Order Management a customer which includes huge no of Brands. The work responsibilities include Configuration launch and installation, maintenance and incident solving
* Created and analyzed daily users' performance and usage report to identify trends and patterns for exception handling
* Worked closely with Business Directors, project managers, business analysts and SMEs in various business areas to gather, analyze and document the requirements and supported the project throughout the development lifecycle
* Automation of test scripts was done using QTP for test re-usability of different online transaction modules.
* Gathered requirements from users of the Clear Quest CQ tool for any Enhancements or change requests for any defects.
* Analyzed and implemented user requirements/business needs as new and/or enhanced functionality.

**Client:** Nelito Systems Ltd., India. **From:** May 2009 – June 2012

**Role:** Business Analyst

**Responsibilities:**

* Gathered information and created business requirements, designed functional specifications and flowcharts, implementation and integrated it into IT System and new developments.
* Acted as Product Owner, translating use cases into stories so that development team always had prioritized work.
* Ran weekly backlog refinement meetings, participating in bi-weekly sprint planning meetings and retrospectives giving team functional direction and status.
* Wrote UAT tests based on end user requirements, delivering results for application acceptance and release.
* Provided and maintained product application roadmap, giving stakeholders and development team direction.
* Performed GAP analysis for the modules in production and also conducted feasibility study for the performance impact analysis.
* Worked with business users and technical staffs of all levels and developed test plans for major production implementation and release management.
* Created business flow diagram, sequence diagram using different software tools MS Visio, Excel, Word, and PowerPoint.
* Assign resources to each project, review test plans/schedules/Strategies.
* Day to day status communication to IT stakeholders and senior management.