**Yitayew Workineh**

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**Professional Summary**

Highly methodical, performance-focused, and results-driven professional with extensive experience in data analysis and environmental technology within IT field. Equipped with expertise in industrial research, project management, predictive analytics, and time series and survival analysis . Skilled at identifying process optimization strategies and cost-effective initiatives toward revenue growth . Known as proactive team player with proven ability to cultivate and maintain long-term relationships with diverse individuals of all levels. Highly experienced in data science application projects, visualization, BI and documentation .

**Areas of Expertise**

* Data Analysis and Visualization
* Predictive Modeling
* Processing Control
* Methods Implementation
* Technology Management
* Marketing analytics
* Design of Experiments
* Statistics and programing

**Technical Acumen**

**Programming**

* R
* SAS
* Python
* JMP
* SQL/MySQL
* ETL/SSIS/SSAS
* SPSS
* VBA
* Excel
* Pivot Table
* VLOOKUP

**Modeling and Machine Learning**

* Linear and Logistic Regression
* Random Forests
* Decision Trees
* Boosted Trees
* Ridge
* LASSO and Elastic Net
* SVM
* Neural Nets
* PCA
* KNN
* Data mining

**Data Visualization Tools**

* Tableau
* ggplot (R)
* QGIS
* *QlikView*

**Statistics**

* DOE
* Exploratory Data Analysis
* SPC

**Professional Experience**

**Sure West Communications, Roseville, CA**

**Jan 2016- Present**

**Business Analyst**

With over 90 years of quality service within the Northern California area, SureWest Communications and its family of companies have provided an integrated network of highly reliable advanced communications products and services such as Digital Cable TV, Fiber Optics, PCS wireless, DSL, High-speed Internet Access, Data transport, and Local and long distance Telephone service with the highest standards within the Northern California and surrounding districts. I was involved in the Exodys project that was initiated to upgrade and implement SureWest internal and external provisioning system architecture and applications aimed to deliver the best service possible to SureWest customers while increasing quality, production, revenues and maintainability.

**Responsibilities:**

* Determined root cause of system deficiencies while communicating the findings to the design engineer to facilitate effective corrections
* Created and managed Tableau sites, projects and workbooks, groups, data views, data sources and data connections
* Performed maintenance and scheduling of Tableau Data Extracts using Tableau Server and the Tableau Command Utility
* Conducted correlation analysis between different parameters within the existing and past operations, and integrated findings for process modification and better yield
* Designed and implemented proof of concept solutions and created advanced BI visualizations using Tableau
* Developed statistical models, algorithms, SQL quarries, and methodologies to classify, predict, and quantify performance metrics, anomalies, defects, and faults in process data
* Deployed monitoring control charts and executed root cause analysis for detecting defects using historical data, and failure analysis to determine the factors of a semiconductor device failure to control and optimize processes within specified limits
* Responsible for Tableau administration, including user provisioning, server management, license administration, and version upgrades
* Formulated visualization techniques using A/B testing, R, Microsoft Excel, Data miner, and Tableau for the identification of data relationships, trends, and anomalies
* Leveraged different data architectures and data blending technologies to provide data to Tableau and built dashboards to provide insights
* Drove strategic efforts in developing various representations of data, including:
* Process monitoring control charts to detect process anomalies and equipment failures ensuring the prevention of equipment failure and shutdown for root cause analysis for over 80% of the time;
* Predictive models to understand the correlation between parameters, equipment and process operations, and optimized equipment paths for products and processes, and yield and scrap estimation based on previous process parameters

**Environment:** Oracle, SAS, SQL server, R, SSIS, SSRS, MS Office Suite, Windows.

**Granite State College—Concord, New Hampshire**

**April 2014- Dec 2015**

**Data Analyst**

Granite State College operates a network of nine statewide locations, as well as online.

**Responsibilities:**

* Worked with a team of four and helped Granite State College in identifying ways to increase student retention, improve graduation rates and continue enrollment growth through analyzing and modeling student data
* Designed, developed, and maintained various user-friendly dashboards in Tableau server using various reproducible data sources, stored procedures, view, calculations, and parameters
* Developed a classification model using Random Forest, decision tree and logistic regression to predict whether a student will graduate. Train, test and validate a random forest and logistic regression model
* Developed and maintained advanced reporting, analytics, dashboards and other BI solutions using Tableau and provided Tableau support to users
* Examined association of various factors leading to students’ dropout at Granite State College where discovering of pattern or association helped in effective decision making and intervention using Python and R
* Created homogeneous groups of students using clustering unsupervised machine learning algorithms and identified students who are at a higher risk to dropout and require immediate intervention
* Developed interactive dashboards and documented standards and best practices for development, administration and use of the Tableau platform/applications
* Administered user, user groups, and scheduled instances for reports in Tableau
* Applied Survival Analysis and Cox proportional Hazard Rate Modeling and determined the relevant weight of factors which determine students’ academic success using SAS
* Created and managed Tableau sites, projects and workbooks, groups, data views, data sources and data connections
* Performed maintenance and scheduling of Tableau Data Extracts using Tableau Server and the Tableau Command Utility

**Environment:** Oracle, SAS, SQL server, R, MS Office Suite, Windows.

**Universal Studio, CA**

**Oct 2012- March 2014**

**Data Analyst**

Universal Studios is the leading Media and Entertainment Company in the industry.I worked as a Data Analyst for enhancing the present web application of Home Video and DVD module that allowed customers to buy the DVD’s and Videos of their choice.

**Responsibilities:**

* Maintained consistency of SAS variables formats and sorted various datasets.
* Developed complex SAS macros to simplify SAS code and effectively reduce coding time
* Involved in designing the project and process flow diagrams using SAS Enterprise Guide
* Created Pivot tables in Microsoft excel for the SAS DATASETS for further calculations.
* Performed the GAP analysis to find the Root Cause of the issues.
* Extract, clean and validate data from datasets using various data steps and SAS procedures & techniques.
* Developed complex SQL scripts for Teradata database for creating BI layer on DW for tableau reporting.
* Tested the ETL process for both before data validation and after data validation process. Tested the messages published by ETL tool and data loaded into various databases
* Involved in data validation using SQL queries and back-end testing
* Developed reports, dashboards, SQL queries using Tableau
* Reviewed extensive SQL Queries with complex multi-table joins and nested queries.
* Determined more efficient ways of collecting and qualifying data.
* Involved in extensive data validation by writing several complex SQL queries and Involved in back-end testing and worked with data quality issues.
* Synthesized and translate Business data needs into creative visualizations in Tableau
* Interacted with the developers to explain the proposed changes and understand the system requirements to handle these changes.
* Analyzed and evaluated the performance of the application from various dimensions and conducted UATs for successful implementation made sure that all the requirements were met.

**Environment:** Oracle, SAS, SQL server, MS Office Suite, Windows, SSIS, SSRS.

**Warner Bros, Burbank, CA**

**Jan 2011- Sept 2012**

**Data Analyst**

Warner Bros. Entertainment is a fully integrated, broad-based entertainment company- is a global leader in the creation, productions, distribution, licensing and marketing of all forms of creative content and their related businesses, across all current and emerging media and platforms.

**Responsibilities:**

* Involved with data profiling for multiple sources and answered complex business questions by providing data to business users.
* Mentored business power users to create reports/dashboards using tableau desktop.
* Blended data from multiple databases into one report for data validation.
* Involved in Data mapping specifications to create and execute detailed system test plans. The data mapping specifies what data will be extracted from an internal data warehouse, transformed and sent to an external entity.
* Designed the data marts in dimensional data modeling using star and snowflake schemas.
* Developed complex SQL scripts for Teradata database for creating BI layer on DW for tableau reporting.
* Tested the ETL process for both before data validation and after data validation process. Tested the messages published by ETL tool and data loaded into various databases
* Involved in data validation using SQL queries and back-end testing
* Developed reports, dashboards, SQL queries using Tableau
* Reviewed extensive SQL Queries with complex multi-table joins and nested queries.
* Determined more efficient ways of collecting and qualifying data.
* Involved in extensive data validation by writing several complex SQL queries and Involved in back-end testing and worked with data quality issues.
* Worked on Microsoft Business Intelligence tools (SQL, SSIS, SSRS, and SSAS) for data mapping.
* Experience in testing of Data Warehouse/ETL Applications developed in SSIS using SQL Server, Oracle. Ability to evaluate ETL/BI specifications and processes.
* Synthesized and translate Business data needs into creative visualizations in Tableau
* Used SDLC (System Development Life Cycle) methodologies using Agile.
* Created Data Mapping to document to migrate data from the existing system to the new system.
* Performed Database testing using SQL queries
* Strong Documentation and Report Generation skill and experience by Use case approach.
* Involved in reviewing complex SQL queries, views, functions.
* Setup, co-ordinate & conduct system & UAT testing with Business Analysts and end-field users
* Receiving data, overseeing the transferring of the data to our database, and analyzing the data for accuracy and compared to what is in the destination system.
* Make presentations to the end client.
* Constantly involved in review meetings and made sure testing is done based on the QA master plan and deadlines are met.
* Was involved in working with the offshore testing team to co-ordinate Regression Testing.
* Preparing sample Test Data and executing Test cases using Quality center.

**Environment:** Oracle, SAS, SQL server, MS Office Suite, Windows, SSIS, SSRS, SSAS.

**Education:**

Master of Science in Environmental Science and Technology

Bachelor of Science in Resource Management