Jazmin Logrono

OBJECTIVE

Data Analyst with expertise in healthcare data analytics, proficient in SQL, Python and R seeking to leverage advanced statistical analysis and data visualization skills to support cutting-edge physician and hospital reimbursement methodologies, population health management initiatives, and value-based care programs.

EDUCATION

SYRACUSE UNIVERSITY — MASTER OF SCIENCE IN APPLIED DATA SCIENCE, DEC 2022

- Relevant Coursework: Big Data Analytics, Business Analytics, Applied Machine Learning (Data Mining), Statistics, Text Mining, Data Visualization, Natural Language Processing, Data Warehouse, Data Concepts & Database Administration, and Cloud Management.

LE MOYNE COLLEGE - BACHELOR OF SCIENCE IN PHYSICS, MAY 2013

- Relevant Coursework: Probability Theory, Computational Physics, Calculus I, II, III, Differential Equations, Linear Algebra, minored in Philosophy.

EXPERIENCE

INFORMATICS ANALYST II, CDPHP - SEP 2024 - PRESENT

- Develop and maintain Tableau dashboards to track Key Performance Indicators (KPIs), Utilization metrics, and business objectives, providing actionable insights for decision making.
- Partner with internal teams and external stakeholders to assess business needs, address data-related challenges, and communicate the implications of analytic results.
- Implement automation and AI-driven solutions to streamline workflows and enhance operational efficiency.

PRINCIPAL HEALTHCARE DATA ANALYST, NYSDOH (VIA SSO CONTRACT) - NOV 2023 - SEP 2024

- Lead data migration to Snowflake, ensuring data integrity and efficiency.
- Utilize DBT for transforming data into analytics-ready marts, improving data transformation processes.
- Develop Python scripts for data upload and validation, optimizing data workflows.

- Collaborate with stakeholders to address data-related challenges and provide project updates.

ANALYST, JUDICIAL COUNCIL OF CALIFORNIA - JAN 2022 - AUG 2022

- Automated data collection processes using R Scripts, enhancing data extraction efficiency.
- Updated Tableau dashboards to visualize trends and support data-driven decision-making.

PROGRAMMER, SOUNDVISION - JUL 2019 - JUN 2021

- Developed and maintained databases for lighting systems, focusing on database design and management.

PROJECT ENGINEER, KW ENGINEERING - JAN 2018 - JUL 2019

- Applied data collection and analysis techniques to identify energy-savings opportunities.
- Produced Data Visualizations to present insights to stakeholders.

FIELD SERVICE ENGINEER, PROAUTOMATED - FEB 2015 - JAN 2018

- Designed and implemented databases for lighting systems, focusing on database management and programming.

LABORATORY TECHNICIAN, PMI - JUL 2013 - JAN 2015

- Conducted data collection, analysis, and interpretation of results for client samples.

SKILLS

- **Programming Languages:**
  - **Python:**
    - Proficient in implementing natural language processing (NLP) and machine learning models for data analysis.
    - Experience in developing predictive models and automating data processes using libraries such as pandas, numpy, scikit-learn and NLTK.
  - **R:**
    - Experience in statistical analysis, data visualization, and machine learning techniques relevant to healthcare research.
    - Proficient in using R for exploratory data analysis (EDA), statistical analysis, and creating visualizations using ggplot2 and other relevant packages.
- **Data Analysis and Data Science:**

- Experience in hypothesis testing, regression analysis, clustering and classification algorithms for analyzing healthcare data.
- **Database Management and SQL:**
  - Proficient in writing complex SQL queries, including joins, subqueries or CTEs, and aggregation functions.
  - Experience in database management, ensuring data integrity and efficiency in healthcare data environments.
- **Data Modeling and Transformation:**
  - Hands-on experience with Snowflake and DBT (Data Build Tool) for transforming raw data into analytics-ready formats, optimizing data workflows for analysis and reporting.
- **Data Visualization:**
  - Proficient in using PowerBI and Tableau for creating interactive and insightful visualizations of healthcare data.
  - Experience in designing dashboards and reports to communicate complex data analysis effectively to technical and non-technical stakeholders.
- **Healthcare Data Analytics:**
  - Strong background in healthcare data analytics, including experience with population health analysis, quality measures, and healthcare outcomes research.

PROJECTS

Opioid Epidemic Analysis - Project Link

Project Summary: The United States faces a critical Opioid Epidemic crisis primarily rooted in overprescribing practices by healthcare providers. To address this issue, our research team conducted an in-depth analysis using the Medicare Part D Prescribers by Provider and Drug dataset from the Centers for Medicare & Medicaid Services. Our objective was to identify key factors and drivers contributing to the Opioid Epidemic.

Analysis: Using the R programming language, we employed advanced data analytics techniques, including Data Visualizations, Statistical Analysis, and Data Mining methodologies such as Decision Trees, Naïve Bayes, Association Rules Mining, and Clustering. This comprehensive approach allowed us to uncover critical insights into opioid prescription patterns and their implications.

Results: Our analysis revealed several states experiencing excessive opioid use

attributable to prescription practices, notably Illinois, Georgia, Colorado, and Alabama. Specific healthcare settings, including Family Practices, Emergency Medicine, General Surgery, and General Practices, were identified as significant contributors to high opioid prescription rates. This finding underscores the urgency for targeted interventions and awareness campaigns within these healthcare sectors to combat opioid addiction and overdose.

Recommendations: To mitigate the Opioid Epidemic crisis, our findings advocate for raising awareness among healthcare practitioners about the risks associated with opioid overprescription. Implementing early intervention programs in high-risk states can effectively address and reduce opioid misuse.

Wikipedia Toxic Comments - **Project Link**

Project Summary: The internet has revolutionized communication, but it has also introduced challenges such as toxic behavior and online harassment. Our research focused on analyzing Wikipedia Comments to detect and mitigate harmful expressions, aiming to enhance internet user safety and mental well-being.

Analysis: Implemented in Python, our analysis involved:

- **Tokenization and Vectorization:** Processing Wikipedia Corpus to extract meaningful features.
- **Text Mining Techniques:** Employing Naive Bayes, Latent Dirichlet Allocation (LDA), Clustering, and Support Vector Machines (SVM models) to classify toxic comments.

Results: Our findings categorized toxic comments into hate speech and online harassment. The prevalence of such behavior highlights the needs for proactive measures to safeguard internet users, especially children and teenagers who are increasingly exposed to online harassment. We explored the potential impact of moderated content on Wikipedia to foster healthier online communities and reduce instances of online harassment.

Avocado Analysis - **Project Link**

Project Summary: As awareness of health impacts from dietary habits rises, consumer demand for healthier foods like avocados has grown significantly. Avocados are recognized for their cardiovascular and ocular health benefits, aiding in weight loss and overall growth and development. With California leading avocado production in the U.S., our research project centered on analyzing production trends and pricing dynamics influenced by precipitation levels across various California counties and their broader impact on nationwide prices.

Analysis: Utilizing Python programming, our team conducted comprehensive data analysis incorporating statistical methods and advanced forecasting techniques such as ARIMA and Prophet. This approach enabled us to visualize and forecast avocado production trends within California counties and their corresponding pricing impacts nationwide.

Results: Key findings highlighted California's efforts to augment avocado production to meet escalating consumer demands. Variations in precipitation levels were identified as significant factors influencing both production volumes and market prices. Additionally, import dependencies from Mexico emerged as a critical determinant impacting pricing differentials across states. For instance, proximity to the Mexican border, such as Texas, experienced relatively lower avocado prices compared to states like Idaho and Connecticut, where prices were notably higher.

CERTIFICATIONS

SQL - MySQL for Data Analytics and Business Intelligence - Udemy

Tableau 2022 A-Z: Hands-on Tableau Training for Data Science - Udemy

Python Programming - Cornell University

Machine Learning - Cornell University

The Complete dbt (Data Build Tool) Bootcamp: Zero to Hero - Udemy

Snowflake - The Complete Masterclass - Udemy