MUKILA BROWN

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VERSATILE DATA SCIENCE PROFESSIONAL

Career Profile

I am a highly motivated and results-driven data science professional with 4 years of experience and a strong foundation in Python, R, SQL, Tableau, and Power BI, complemented by a master's in data science, and skilled in data reporting, statistical analysis, machine learning, predictive modeling, and forecasting. Proven success collaborating with clients and internal teams in healthcare analytics, academia, and non-profit sectors. My adaptable, quick-learning nature ensures success in any industry. I'm seeking a challenging and dynamic Data Scientist position to apply my technical skills to drive data-driven decision-making, create impactful data stories through dashboards, process automation to solve complex problems, and contribute to organizational efficiency, financial outcomes, and customer service.

Technical Proficiencies

Programming Languages: Python, SQL, R, SAS, C++, HTML

Apps/Software: Tableau, Power BI, Looker Studio, SSMS, Jupyter Notebook, R Studio, Spyder, Amazon S3, Snowflake, Zendesk, DBeaver, Swagger UI, AzureML, GitHub, Microsoft Office Suite, SharePoint

Python and R Libraries: SciKit-Learn, Keras, PyTorch, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn, FBProphet, Tseries

Additional Information: Good working knowledge of healthcare data and payer business; Experience working with medical claims data and familiarity with coding taxonomies used in healthcare billing and electronic medical records such as ICD-10 codes, CPT-4 codes, MS DRGs, LOINC, and NDC

Professional Experience

INOVALON INC., REMOTE, MARCH 2022 TO NOVEMBER 2023
SOFTWARE DATA ENGINEER

- Excel in working with SQL in day-to-day operations; this entails validating test datasets from healthcare payers, automating monthly data integration and preprocessor workflows in cloud-based data ingestion UI, analyzing internal client databases hosted in remote servers, building data maps and field transformation rules, and troubleshooting errors in data ingestion and distribution cycles.
- Assume responsibility for regularly maintaining more than 15 client accounts; duties involve managing respective databases, cultivating positive relationships with data teams, and regularly connecting with client teams to review and discuss open data topics such as periodic data submissions, data layout changes, additional data requirements, validation results, and data issues.
- Demonstrate excellence in building automated testing scripts in Python that generate easy-to-read Excel reports, along with setting up automated stored procedures in SQL server to reduce the redundancy and manual workload while testing or validating periodic data; automation scripts built for the Value-Based Program Insights team reduced total data analysis time from one hour per file to a few seconds—similarly, the data analysis and reporting scripts built in Python for the New Client Onboarding process saved the team over 300 hours of manual testing in 2022.
- Deliver end-to-end data support for both the internal and external teams in association with the onboarding phase of a new client; this involves presenting the payer clients with recommended data layouts, explaining required data elements customized to the client's contract, building detailed analysis reports for test data, creating documentation, sharing PHI (Protected Health Information) data via secured FTP connections, hosting follow-up meetings to discuss the reports, staging the client's production data, setting up the internal data integration environment, and answering data questions from both internal and external stakeholders.

- Accountable for effectively collaborating and communicating with downstream products and upstream customer success, marketing, and client implementation teams to ascertain smooth flow of data and timely delivery of customer reports and submissions.
- Spearhead periodic training sessions highlighting coding, Python programming, various analytics functions and libraries, and demonstration of automation scripts for various team members, department interns, and non-technical personnel.

SOUTHEASTERN UNIVERSITY, LAKELAND, FL, JANUARY 2021 TO MARCH 2022
DATA ANALYST
- Leveraged SQL querying and appropriate statistical methods to analyze and create complex reports and dashboards for the leadership team and other internal departments via using institutional and external data.
- Crafted successful Stored Procedures using SQL and Power BI dashboards to upgrade and automate various long-term projects to include Enrollment Trends, Student Registration Reports, Retention, Persistence and Graduation Reports, and Semester-Wise Enrollment Census Analysis.
- Generated an extensive Academic Affairs report via SQL for the leadership team analyzing enrollment and direct staffing expenses for the university; additionally details also included measuring the health of active programs and using occupational outlook projections to evaluate current programs and recommend new ones.
- Constructed an Enrollment Projection model using Logistic Regression and cross validation in Python that predicted future enrollments with 85% accuracy.
- United with other departments and external sources to collect data and build an accurate and reliable data network.

UNIVERSITY OF NORTH CAROLINA WILMINGTON, WILMINGTON, NC, AUGUST 2019 TO DECEMBER 2020
DATA SCIENCE GRADUATE ASSISTANT
- Utilized Python for data cleaning and data management of the Institutional Research and Planning datasets.
- Cleaned and converted large datasets into Tableau visualizations for easy access and readability for a non-technical audience.
- Participated in various data science-related projects using Python, R, SAS, Power BI, and Tableau. This includes:
  - Using time series forecasting methods in R like Seasonality, Decomposition, Exponential Smoothing, ETS models, and ARIMA models to analyze coal-based electricity generation trend, along with comparing model accuracies and using the best model to forecast the monthly electricity generation for the next five years. *https://github.com/mukilar/Time-Series-Forecasting/blob/main/Knitted%20version.pdf*
  - Working on determining the efficiency of various Machine Learning classification and clustering algorithms like Decision Trees, Random Forests, Hierarchical Clustering, KNN, K-means Clustering, Gradient Boosting, SVM, DBSCAN, Bagging and Naïve Bayes in Sci-kit learn library in Python to classify malicious botnet packets from network traffic, and additionally used dimension reduction techniques like PCA and Active Learning to improve model efficiencies. *https://github.com/mukilar/Ghost-Hunting-Finding-a-Botnet-in-NetFlow-Traffic*

CAPE FEAR COLLECTIVE, WILMINGTON, NC, MAY 2020 TO JULY 2020
DATA ANALYST INTERN
- Used R and Python for web scraping, data cleaning, and data analysis of publicly available data sets about the Cape Fear Region in North Carolina to create content for newsletter articles.
- Tasked with creating visualizations via Tableau for a Racial Equity Dashboard, a project focusing on addressing racial disparities in the community. *Visualization Link: https://cape-fear-collective.shinyapps.io/confederate-timeline/*

Education and Credentials

MASTER OF SCIENCE IN DATA SCIENCE, 2020; *University of North Carolina Wilmington, Wilmington, NC*

CERTIFICATIONS; *Tableau Desktop Specialist, SAS Certified Base Programmer for SAS 9*