

MUKILA BROWN

📍 Bartow, FL | ☎ (910)-859-9085 | ✉ mukilabrown@gmail.com | [in LinkedIn](#) | [GitHub](#)

VERSATILE DATA SCIENCE PROFESSIONAL



Career Profile

I am a highly motivated and results-driven data science professional with over 4 years of diverse experience across analytics, visualization, and data engineering within multiple sectors such as non-profits, healthcare, academia, and criminal justice. I have a strong foundation in Python, R, SQL, Tableau, and Power BI, complemented by a master's in data science. I am skilled in data visualization, reporting, statistical analysis, machine learning, predictive modeling, and forecasting. I am seeking a challenging and impactful data science role centered on data visualization where I can leverage my expertise to derive actionable insights, craft compelling data narratives through intuitive dashboards, and implement process automation to address complex problems, thereby enhancing organizational efficiency.

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, Flourish Data Visualization

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

Professional Experience

LUMINOSITY SOLUTIONS, ST. PETERSBURG, FL, DECEMBER 2023 TO PRESENT

DATA VISUALIZATION EXPERT

- Lead the transformation of large volumes of intricate justice system data into actionable insights using Power BI reports, driving significant contributions to nationwide criminal justice reform initiatives.
- Demonstrate proficiency in leveraging DAX statements and Power Query to craft intricate measures and streamline data in Power BI. Successfully develop functional data models from extensive datasets, encompassing millions of rows, to create actionable dashboards while upholding optimal performance standards.
- Initiated and led an effort to systematically document data transformations utilized in dashboards, streamlining maintenance processes and promoting standardization across projects.
- Foster collaboration across cross-functional teams, including data scientists, data engineers, and research professionals. Spearhead data analysis efforts to identify key facts and dimensions, thereby enhancing data quality for research and interactive reporting purposes.
- Proactively conduct research into emerging industry trends, consistently seeking opportunities to enhance and broaden visualization techniques. Effectively implement innovative approaches to elevate the impact of data-driven storytelling.

INOVALON INC., REMOTE, MARCH 2022 TO NOVEMBER 2023

SOFTWARE DATA ENGINEER

- Proficiently utilized SQL for daily tasks including data validation, automation of data integration workflows, and analysis of client databases, ensuring smooth data operations.
- Assumed responsibility for managing 15+ client accounts, overseeing database management, fostering positive relationships with internal and external data teams, and facilitating discussions on data-related topics for effective collaboration.
- Developed automated testing scripts in Python and SQL stored procedures, reducing manual workload and enhancing efficiency, resulting in over 300 hours of time savings for the team and improved data analysis processes.
- Provided end-to-end data support during client onboarding, including presenting recommended data layouts, creating analysis reports, and facilitating communication between internal and external stakeholders.

- Led training sessions on coding, Python programming, analytics functions, and automation scripts for team members, interns, and non-technical audiences promoting skill development and knowledge sharing across departments.

SOUTHEASTERN UNIVERSITY, LAKE LAND, 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 by using institutional and external data.
- Crafted successful Stored Procedures using SQL and Power BI dashboards to upgrade and automate various long-term projects including 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.

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 trends, 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