**BRITTANY MARRA**

Data Analyst

**Location: Mystic, Connecticut | Mobile: (860)-912-6302 | Email: brittanymarra2015@gmail.com**

**Skills**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Coding | **Technologies** | | **Management** | **Visualization** | **Other** |
| Python | Java | MS Access | JIRA | PowerBI | Actuarial: VEE Economics, VEE Statistics Cert |
| Excel | Angular | Kubernetes | Agile Methodology | Tableau | Contact Tracing Covid-19 John Hopkins University |
| R | Node.js | Docker | GitHub | Qlik | Data Analysis |
| SAS | Teradata | Node Red | Trello | Looker | Deep Learning, Neural Networks |
| SQL: MySQL, NoSQL | Snowflake | Postman | Service Now |  | Machine Learning |
|  | Google Big Query | Dbeaver | Mural |  | Modeling |
|  | Azure Synapse | Salesforce |  |  |  |

**Training**

Snowflake, Databricks, Python, Azure, Tableau, PowerBI, Alteryx, Salesforce: Platform Developer, Salesforce: Administrator, Deep Learning, AWS SageMaker

**Work Experience**

**Data and Analytics Consultant, *NTT DATA – Las Vegas, NV*** July 2021- Present

*Business and Data Analyst:*

*Healthcare, Manufacturing, and Insurance Industry Clients:*

* Advise in data management decision-making and sprint planning
* Collaborate with stakeholders to define and document business and technical requirements, resulting in a 16% reduction in project scope creep and ensuring alignment with organizational goals.
* Create and Collect business requirements from cross-functional teams and translate them into data-driven solutions
* Write corresponding Proposals, SOW’s, BRD’s, RFP’s, and FRD’s
* Monitor project progress, set deadlines, evaluate project performance, and ensure stakeholder satisfaction
* Strong understanding of database structures including validation, transformation, and report generation.
* Data Governance and Master Data Management (MDM) Work:
  + Led multiple work streams that undertook tasks such as finalizing the data governance organizational & operating models
  + Document clear roles via RACI matrix
  + Create data quality and data lineage strategy frameworks, guidelines, and standards
  + Follow data modeling and data handling procedures to maintain compliance with applicable laws and policies across assigned workstreams
  + Validate reporting and data accuracy
* Data Migration Work:
  + Develop a comprehensive strategy, including data mapping, extraction, transformation, and data loading
  + Contributed on a data migration project from Teradata to Snowflake for a large scale enterprise, migrating over 10 TB of data from legacy systems to a cloud-based platform
  + Utilized web scraping techniques via Python to extract and organize data, resulting in an increase of operational efficiency by 25%
  + Experience with SnowSQL for Teradata to Snowflake conversion, enhanced data quality through query optimization to result in reduction of data anomalies.
  + Develop SnowSQL/Snowflake stored procedures, functions, views, tables and other database objects as defined by business partner requirements and to support overall corporate objectives.
  + Conduct post-migration data audits and service now analysis
* Experience with managing codebases, pipelines, and underlying data table architectures
* Responsible for data validation and testing in QA, UAT, and Production environments
* Create intuitive and interactive dashboards and reports using data visualization tools to facilitate data exploration

*Data Scientist:*

Projects- Hospital Readmissions, Insurance Fraud, Major League Baseball, Hospitality

* Process and cleanse data: data investigation and exploratory data analysis
* Design and develop interactive dashboards and visualizations for internal and external stakeholders via PowerBI
* Analyze large datasets and leverage Python & SQL for data mining, data profiling, and predictive analytics
* Perform data integration and storage on AWS and Azure cloud platforms
* Modeling:
  + Binary Classification: Logistic Regression, K Nearest Neighbors
  + A/B Testing and Experimental Design
  + Decision Trees: CART, Decision Tree Classification, and Random Forest
  + Gradient Boosting: Catboost, XGBoost, Stochastic Gradient Descent
  + Developed artificial intelligence-driven fraud detection model using XGBoost, achieving a 76% accuracy rate in reducing fraudulent transactions.
  + Utilized LGBM model for MLB predictive pitch, attaining a 63% accuracy rate.
  + Engineered a hospital readmissions model employing XGBoost, resulting in a 73% reduction in fraudulent transactions.
  + Designed an auto-prune CART model, generating segmentations for A/B testing to assess the impact of a client's new pricing tool on annual revenue.
  + Time Series: AR, MA, ARIMA ·
* Model Evaluation with Shapley values, ROC curves, confusion matrices, and permutation importance.
* Model Improvement & Deployment:
  + Regularization
  + Feature Engineering
* Leverage and Deploy python code packages: Numpy, Pandas, Matplotlib, SciPy, and Scikit-learn via Github and Jupyter Notebooks: <https://github.com/bmar0821>
* Strong Understanding of Economic principles and Pricing theories
* Trust & Ethics Document, inclusive of ethical frameworks, fairness metrics, and data privacy regulations

**Data Scientist, *IBM* – *Baton Rouge,* LA** June 2019- July 2021

*Data Analyst:*

*Retail*

The goal of this project was to optimize restaurant operations by minimizing waste and maximizing employee utilization. Brittany is a core member of the IBM (CR) Connected Restaurant Team. She holds the responsibility of going to new locations to deploy, test, and support IBM's AI Solution for predictive cooking using automated cooking robots. Her responsibilities begin with

* Experience with data extraction, manipulation, and blending across different data sources
* Use of syndicated POS data for attributed waste management model
* Apply product knowledge for data validation
* Create and execute MySQL queries via Kubernetes pods
* Deploy IoT devices and train visualization models
* Leverage IBM Watson Technology and build multi-node Kubernetes clusters, which include user interfaces on Node-RED, R, and Python analytical scripts.
* Analyze large datasets, historical and in real time, using SQL and Python
* Collaborate with cross functional teams to develop predictive models, resulting in an 18% improvement in demand forecast accuracy
* Built time series; ARIMA models, that reduced excess inventory by 14% and stock shortages by 6%

*Business Analyst:*

*Healthcare and Government:*

Amid a global pandemic the National Institute of Health (NIH) awarded funding to IBM to create a pandemic response program integrating two technologies for a Water Plant in the D.C Area

* Salesforce Administrative work; creating flows and processes, setting up data security, troubleshooting users, and cleansing data
* Experience working in complex, enterprise, global Salesforce.com (SalesForce Dot Com: SFDC) implementations, customer data, and entitlements
* Experience with SFDC Service Console, SFDC Communities, SFDC Case Management, SFDC Knowledge Management, SFDC Health Cloud and Work.com packages
* Articulate data requirements and data quality standards
* Enable seamless customer engagement and improving information sustainability via Salesforce, resulting in a 28% increase in customer satisfaction for the Water company’s return to work program
* Conduct user experience (UX) research and usability testing on Covid-19 Daily Surveys

**Universal Banker, Webster Bank – Manchester, CT** June 2018- June 2019

* Assist in the facilitation of and reinforcement of team-training sessions consistent with Webster's Sales & Service process.
* Make recommendations to reward and recognize performance of team members utilizing established programs and sources.
* Salesforce Sales and Service Console
* Awarded and Ranked 6th at Webster Bank for Quarter 3 sales (September 2018)

**Awards**

GBSService Excellence Award February 2020

GBS Service Excellence Award May 2020

**Extracurricular Activities and Projects**

Trust & AI Ethics Document, *Internal Project @ NTTDATA* March 2022 - Present

Calculus Solutions Analyst, *Research under Dr Amit Savkar,* *Mansfield, CT* September 2018-May 2019

SAS Mortality Rate, *Limra, Mansfield, CT* January 2018-May 2018

R Programming, *Determinants for the Price of a Vehicle, Storrs, CT*  January 2018-May 2018

Janet and Mark L Goldenson Center of Actuarial Research, Storrs, CTJanuary 2017 and January 2018

**Education**

**University of Connecticut*, Storrs, CT*** Graduated

B.A Mathematics and Statistics

GPA 3.68