Micaela V. McCall

DATA SCIENTIST

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SKILLS

Data Science Python (Pandas, NumPy, Scikit-learn, Matplotlib/Seaborn, & more), R (Tidyverse, various statistical packages), predictive analytics/machine learning, statistical modeling (univariate and multivariate modelling, parametric and nonparametric statistics), Git/Github, Unix/Linux, SQL

Research FSL (MRI and fMRI analysis), Microsoft Suite, Prism, multidisciplinary collaboration, design of written and verbal reports, clinical communication, MATLAB, Spanish (proficient)

EXPERIENCE

Data Scientist *03-2020*
ATA, LLC, The Full Stack Data Science Company *Present*
- I work on the development and integration of machine learning and statistical algorithms into full stack data science solutions for our clients *Vienna, VA*

Research Analyst *05-2018 - 03-2020*
National Institutes of Health, National Center for Complementary and Integrative Health *Bethesda, MD*
- Built pipelines in R and Python for analysis of behavioral and physiological data (fMRI, autonomic)
- Collaborated with a diverse research team, facilitated patient visits, and consulted with patients on study procedures.
- Designed data visualizations, written, and verbal reports for multidisciplinary audiences

PROJECTS & PUBLICATIONS more at micaelamccall.com

Finding Topic Clusters in Tech News (GitHub) *01-2020*
NIH Foundation for Advances Education in the Sciences, Bioinformatics and Data Science *Bethesda, MD*
- Web-scraped 1,500 tech news articles and trained a KMeans unsupervised algorithm to cluster articles based on content.

Exploring Patient Satisfaction and Readmission in Medically Underserved Areas (GitHub) *09-2019*
NIH Foundation for Advances Education in the Sciences, Bioinformatics and Data Science *Bethesda, MD*
- Munged data from multiple API queries and visualized factor relationships using Python.

Using Supervised Learning to Classify Drug Consumption Behavior (GitHub) *11-2018*
NIH Foundation for Advances Education in the Sciences, Bioinformatics and Data Science *Bethesda, MD*
- Trained Logistic Regression, Random Forest, and SVC models on survey data to predict drug use using Python.

Pleasant Deep Pressure: Expanding the Social Touch Hypothesis *09-2018*
National Institutes of Health, National Center for Complementary and Integrative Health *Bethesda, MD*
- Processed and statistically analyzed fMRI data using Python and FSL; created visualizations for manuscript (in preparation).

Analyzing Non-verbal Behavior in Patients Receiving Deep Brain Stimulation for Depression *05-2018*
Emory University *Atlanta, GA*
- Designed project, collected, and analyzed behavioral data in R using Factor analysis, Analysis of Variance, and Regression.

EDUCATION

Emory University, *BS in Neuroscience and Behavioral Biology, BA in Religion* *2014-2018*
- Phi Beta Kappa, Highest Honors in Neuroscience Research *Atlanta, GA*