

Micaela V. McCall

DATA SCIENTIST

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TOOLS & SKILLS

Data Science

- Python
- Clojure
- R
- Machine learning
- Statistical modeling
- Feature extraction
- Classification & regression
- Supervised & unsupervised
- Deep learning, neural nets
- Natural language processing
- Predictive analytics
- Data visualization
- ETL
- MLFlow
- MongoDB
- Azure ML
- PostgreSQL
- Git & Github

Software Development

- Agile software development
- Test-driven development
- Refactoring
- Pair programming/mobbing
- Azure DevOps
- Kubernetes
- Docker
- AWS/Azure
- Jira

EXPERIENCE

Data Scientist

ATA, LLC, The Full Stack Data Science Company

03-2020 - Present

- Implemented the following analytical projects in Python:
 - Data-driven geospatial risk-analysis algorithm using Bayesian statistics
 - Suite of machine learning and statistical anomaly detection algorithms for use in streaming data systems
 - Ensemble of deep learning and classical machine learning for regression problems in logistics
 - Natural Language Processing and use of ontologies for text navigation
- Designed and implemented full-stack data-intensive applications in Clojure to put the above analytical solutions into production.
- Lead a project start-to-finish to create a new API to perform the risk analysis mentioned above, and integrate it with existing company products.
- Applied machine learning operations (MLOps) to production systems, including the development, testing, deployment, and management of model services.
- Developed RESTful APIs in Clojure for complex data integration, processing data from public and licenced datasets, storing in relational and document-oriented databases, and preparing for use by company user interfaces.

Research Analyst

National Institutes of Health, National Center for Complementary and Integrative Health

05-2018 - 03-2020

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.

EDUCATION

Emory University, BS in Neuroscience and Behavioral Biology, BA in Religion

2014-2018

Atlanta, GA

- Phi Beta Kappa, Highest Honors in Neuroscience Research

PROJECTS & PUBLICATIONS [more at micaelamccall.com](https://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 machine learning 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](#))

NIH Foundation for Advances Education in the Sciences, Bioinformatics and Data Science

- Trained Logistic Regression, Random Forest, and SVC models on survey data to predict drug use using Python.

11-2018
Bethesda, MD

Analyzing Non-verbal Behavior in Patients Receiving Deep Brain Stimulation for Depression

Emory University

- Designed project, collected, and analyzed behavioral data in R using Factor analysis, Analysis of Variance, and Regression.

05-2018
Atlanta, GA