MOYO AJAYI

Data Scientist
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SUMMARY

Alaskan born and grown, Moyo is a passionate data scientist who integrates analytical and computational methods to share meaningful insight. Employers will be hiring a data scientist who is:

- experienced with more than 5 years of collecting, cleansing, analyzing, and reporting data-driven insights to a variety of stakeholders
- highly skilled in processing large (10s-100s GB) data sets with python (pandas) and R (tidyverse)
- adept in applied statistical modeling and machine learning using scikit-learn, tidymodels, and other relevant packages
- capable of working in sprint cycles to meet deadlines with quality work, and able to effectively iterate products with long-term goals
- understands how to connect novel data science techniques to specific business questions

EDUCATION

PhD in Environmental Engineering — 2016 - (Spring) 2022
Vanderbilt University, Nashville, TN

MS in Earth & Environmental Sciences — 2014 - 2016
Vanderbilt University, Nashville, TN

Bachelor's in Environmental Biology — 2010 - 2014
Columbia University, New York, NY

TECHNICAL SKILLS & EXPERIENCE

Programming (Advanced)	Python, Matlab, Git, HTML & CSS
Programming (Experienced)	R, Web Scraping, Linux, SQL
IDEs & Libraries	VSCode, RStudio, Pandas, scikit-learn numpy, tidyverse, tidymodels
Data Management	Cluster Computing (GPU), Data Wrangling, Exploratory Data Analysis, Visualization (e.g. Dashboards)
Algorithms	Supervised Classification & Regression, HGBC, LGBM, Gaussian Mixture Models, K-means, Monte Carlo Simulation, Bayesian Hierarchical Modeling
Analytical Skills	Time Series Analysis, Feature Engineering, Multivariate regression, Hypothesis testing

RELEVANT EXPERIENCE

ERM, Inc. — May 2021 - Present
Data Scientist — Denver, CO

· Global Climate Data Reporting Tool: Constructed a sophisticated tool for large non-profit bank lending funds to Latin American-based agribuisness assets.
  · Delivered a python-based tool that connected user input to climate projects
  · Utilized advanced modules to organize extracted data into concise and dynamic reports

· Machine Learning to Optimize Practices at Large Peruvian Copper Mine: Attacking two major objectives
  · Applying supervised ML techniques to predict rock domain from geochemical data
  · Planning to integrate predictions into large scale model to classify rock before it arrives at mill

· Constructed Custom GIS Tool to Quantify Forest Quality Around the Globe: Used python and ArcGIS to create ArcPro toolbox
  · Utilized the pythonic arcpy module to generate a custom tool that allows the user to acquire forest quality around the globe
  · Leveraged pythonic methods to create tool with simple interface for user and readable reports

- Selected to lead the changes for advanced computational infrastructure for N. American Data Science teams

Data Science Research Associate, Data Science Institute — Jul 2020 - Dec 2020
Leveraged ML Techniques to Predict Teacher Churn for the State of Tennessee — Remote Work

- Produced supervised classification machine learning (ML) model with tidymodeling to evaluate and predict annual turnover for 65k+ teachers
- Developed a multitude of functions to clean and engineer features to run ML algorithms (e.g. Decision Tree)
- Quickly absorbed R and tidyverse programming with a GPU cluster to provide effective contributions to the project
- Coded collaboratively in a core team of 5 members through git to build on top of existing code

PhD Candidate, Vanderbilt University — May 2019 - Present
Collaborating with National Oceanographic and Atmospheric Administration (NOAA) — Oak Ridge, TN

- Processed GBs of data from gas measurements taking place over the course of a year
- With Python (e.g. pandas, scikit-learn), the data was wrangled, cleaned, and analyzed to illustrate key insights from the study
- Employing advanced statistical analyses on large time series data sets
- Used random forest and other ML techniques modeling to fill gaps of missing data within the time series data sets

PhD Candidate, Vanderbilt University — Jul 2017 - Present
Linking Greenhouse Gases and Volcanic Emissions with Data-Driven Strategies

- Orchestrated and implemented the scientific and logistic sampling design of more than 100+ samples of greenhouse gas measurements across two N. American volcanoes
- Ran inferential analyses to gain an understanding of the relationships between different locations within and between volcanoes
- Examined geospatial relationships between measurement sites
- Employed advanced statistical analysis to generate high-impact insight

PROFESSIONAL DEVELOPMENT

Hands-On MLOps Workshop in Azure
Microsoft

- Completed an eight hour hands-on lab with Microsoft Azure specialists to grow fundamental skills in building reproducible and maintainable ML products
- This workshop was a stepping stone in developing the experience to becoming an end-to-end concept to production data scientist

Data Science Career Track (Python)
Online Data Science Education Platform

- Completed 100+ hours and over two dozen modules to gain certification
- Hundreds of hours on this platform were spent completing dozens of courses from basic programming to deep learning. Please click for certificates

AWARDS

Global Recognition Award — Nov 2021
ERM, Inc.

- Earned recognition from the CEO based on outstanding work in client focus, collaboration, and innovation. This award was given to approximately one in twelve employees in the N. America region.

1st Place - Oral Presentation — Sep 2019
National Association of Black Geoscientists

- Awarded 1st place for communicating results from gas sampling research in N. American volcanoes