

MOYO AJAYI

Senior Data Scientist

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RELEVANT EXPERIENCE

Bridgestone Senior Data Scientist	Aug 2022 - Present Denver, CO
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- Classifying Customer Reviews for Product Development
 - Spearheaded an 8+ model NLP pipeline, expediting customer feedback integration to influence development for \$5M per product and improve efficiency as well as scale by reducing the previous manual process
 - Directed the technical aspects of the project by collaborating with 4+ data engineering consultants and synthesized our MLOps tasks into the final product
- Corporate Intelligence Retrieval Augmented Generation (RAG) Application
 - Created an end-to-end RAG model and evaluation framework to facilitate strategic planning and for corporate strategists by minimizing search time and promoting accurate and concise responses
 - The RAG model involved the collection of exclusive documents that required several iterations of exploring chunking methods, retrieval algorithms, and human and AI-assisted evaluation to arrive at a successful deployment
- Bridgestone GPT
 - Partnered with three colleagues to introduce a secure chat service for 350+ teammates as an alternative to the company-banned commercial chat services

ERM, Inc. Data Scientist	May 2021 - Jul 2022 Denver, CO
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- Semi-Supervised Learning to Optimize Practices at Large Peruvian Copper Mine
 - Eliminated manual tasks and created a predictive model framework that improved mine performance for the client
 - Employed non-linear dimension reduction (UMAP) and unsupervised ML methods (e.g., HDBSCAN) to effectively compress high-dimensional geochemical data into meaningful clusters
- Global Climate Forecasting Reporting Tool
 - Developed multifaceted tool to query, quantify, and automatically report current and projected data for a financial institution and its agribusiness assets
 - Utilized advanced modules to programmatically organize data queried from global climate models into concise and dynamic reports

Data Science Institute (Vanderbilt) Data Science Associate	Jul 2020 - Dec 2020 Denver, CO
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- Leveraged ML to Predict Teacher Churn for the State of Tennessee
 - Consulted with state education agency and produced supervised classification machine learning model using [tidymodels](#) (R) to evaluate and predict annual turnover for 65k+ teachers

EDUCATION

PhD in Environmental Engineering Vanderbilt University, Nashville, TN	2016 - 2024
MS in Earth & Environmental Sciences Vanderbilt University, Nashville, TN	2014 - 2016
Bachelor's in Environmental Biology (concentration in Earth Science) Columbia University, New York, NY	2010 - 2014

TECHNICAL SKILLS & EXPERIENCE

Programming	Python: PyTorch, HuggingFace Suite, Scikit-Learn, Git, SQL
Data Management	AWS Stack (EC2, S3), Databricks (Apache Spark), Streamlit
Algorithms	NLP and Generative AI: Text and audio generation, embeddings (GPT-4/4o, Mistral Large, BGE) Supervised Classification & Regression (i.e., LGBM), Unsupervised Clustering: UMAP , HDBSCAN