

MOYO AJAYI

Senior Data Scientist

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RELEVANT EXPERIENCE

Bridgestone Senior Data Scientist	August 2022 - Present Denver, CO
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- Automated Classification of Customer Reviews
 - Developed an NLP and LLM model system to collect, classify, and deliver >100k reviews to stakeholder
 - Leaped ahead of previous process and simple sentiment classification by building a collection of transformer-based models that work in concert to provide deterministic predictions of customer feedback across ≥ 16 actionable categories
 - Contributions served as the essential data modeling link in a product development chain for a \$5M per item process
- Corporate Intelligence Retrieval Augmented Generation (RAG) Application
 - Constructed and Deployed RAG model to facilitate efficient strategic planning at the corporate level
 - The RAG model involved the collection of exclusive documents that required several iterations of retrieval, LLM exploration, and evaluation system development
- Bridgestone GPT
 - Collaborated with other data scientists and machine learning engineers to introduce a secure chat service as an alternative to the company-banned ChatGPT
 - Powered a user friendly interface with several options of the GPT LLMs secured on our tenant
 - The productionalized application allows scores of teammates to submit queries to the underlying LLM in order to ideate, generate, and promote a suite of creative and efficient tasks and goals

ERM, Inc. Data Scientist	May 2021 - July 2022 Denver, CO
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- Global Climate Forecasting Reporting Tool
 - Developed multi-layered 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
- Semi-Supervised Learning to Optimize Practices at Large Peruvian Copper Mine
 - Drastically reduced manual workload and provided client with predictive model framework to enhance mine performance
 - Employed non-linear dimension reduction (UMAP) and unsupervised ML methods (e.g., HDBSCAN) to effectively compress high-dimensional geochemical data into meaningful clusters

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 (with concentration in Earth Science) Columbia University, New York, NY	2010 - 2014

TECHNICAL SKILLS & EXPERIENCE

Programming	Python: PyTorch, HuggingFace Suite, Scikit-Learn, Git
Data Management	Cloud Computing (AWS), Databricks (Apache Spark & SQL), User-Interface (e.g. Streamlit)
Algorithms	Text Generation with Large Language Models (Open and Closed Source), Supervised Classification & Regression (i.e., LGBM), Unsupervised Clustering: UMAP , HDBSCAN