

Michael A. Akinola

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Profile Target and result-oriented data scientist, deploying advanced data analytics techniques and machine learning algorithms to build predictive models. Proficient in Python, R, Scala, SQL, Power BI, and MS Excel. Seeking opportunities in Data Science or Machine Learning domain.

Education **Austin Peay State University, Clarksville, TN.** | M.S. Computer Science & Quant. Methods **May 2021**
University of Lagos, Lagos, Nigeria | M. Sc. Physics **May 2017**
Obafemi Awolowo University, Ile-Ife, Nigeria | B. Sc. Physics **February 2013**

Skills

- **Classical Machine Learning and Deep Learning:** Python and R to build Regression, Classification, Clustering, Time Series Analysis, Natural Language Processing, Neural Networks models to solve problems
- **Advanced Data Analytics and Visualizations:** Python, R and Power BI for Exploratory Data Analysis (EDA), Data Visualizations and Feature Engineering
- **Statistical Analysis:** Python and R to implement statistical methods such as hypothesis testing and confidence interval on datasets and models to gain more insight, for decision making and EDA
- **Database Querying and Data Extraction:** SQL and Scala for Data Extraction, Transformation and Loading into appropriate environment for predictive analytics and modeling
- **Cloud/Platform computing:** Data analytics and Machine Learning experience on Amazon Web Service, Google Cloud Platform, Databricks, and C3 AI

Work Experience

Data Scientist | Cummins Incorporation, Columbus, IN **June 2021 to Present**

- Developed optimized diagnostics models (aimed at reprioritization of troubleshooting trees) and prognostics models (for downtime reduction/elimination) for Engines using Python
- Re-designed an optimized fault diagnostics model originally written in Scala, Python and PySpark for re-usability in Python using appropriate data containing fault codes and fail codes of interest
- Coached engineers on data science projects from data gathering to modelling using a no-code predictive analytics tool for Proof of Concept. These projects are then written in Python for production and deployment
- Improved the content and learners experience of a Self-Service Data Scientist training for engineers to learn how to use data science and analytics techniques to solve engineering/automotive problems by assessing feedback and providing modifications to course
- Did comprehensive data migration/loading testing, and code review, model testing and validation to ascertain the effectiveness and efficiency of predictive models

Data Scientist Intern | Cummins Incorporation, Columbus, IN **June to August 2020**

- Extracted Claims data and performed statistical analyses using Python to generate features/KPI to strengthen the confidence in identifying high risk service providers and to make informed and appropriate decisions for implementation of any needed changes in warranty administration in terms of financial audit or training
- Recommended Parametric Statistical Anomaly Detection Technique to support moving forward with development of a risk detection tool (bottom line financial impact/identification of training needs)
- Generated a slide deck communicating the business case for future development of a risk detection tool to move seamlessly from the intern project to a proposal for a Proof of Concept (POC) project

Data Analyst | Bytewise Solutions, Lagos, Nigeria **January 2018 to July 2019**

- Solved business problems in product analysis, demand planning for products and markets by deploying advanced data analytics capabilities in MS Excel and Power BI, and provided reports and presentations
- Scrapped data from websites and did sentiment analysis using Python to develop marketing strategy for new products

Awards and Activities **2020 Graduate Teaching Assistant Excellence Award** | Austin Peay State University, Clarksville, TN
2017 3rd Best Researcher (Science) | University of Lagos Annual Conference, Nigeria
Volunteering Experience (UNICEF and SFH sponsored project) | Nigeria **March 2014 to February 2015**

- Mentored over 100 teenagers on Reproductive Health and HIV/AIDS Prevention and Care