Babatunde Oloyede

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Ohio

Data Scientist

Dedicated and passionate with experience leveraging advanced statistical analysis, machine learning, and data-driven insights to solve complex business challenges and drive strategic decision-making.

Proficient at leading innovation and experimentation in analytics, deploying cutting-edge techniques such as Machine Learning and Visual Analytics to solve business problems across R&D. Excel at communicating effectively across teams and stakeholders to translate complex data insights into actionable strategies. Skilled in automating machine learning models to enhance operational efficiency and ensure scalable solutions with precision. Ability to utilize pre-trained models like BERT, VGG and ResNet to accelerate development and optimization of machine learning solutions. Recognized with a letter of appreciation for commitment and innovative contributions.

Professional Experience

Bowling Green State University – Bowling Green, OH **2021 — 2023**

Graduate Assistant

- Incorporated machine learning algorithms into bioinformatics pipelines, accelerating data processing time by 30%.
- Assisted in coordination and execution of academic events and programs to support department's objectives and enhance student experience.
- Developed and taught a bioinformatics curriculum and Introduction to Computational Biology, increasing student engagement by 30% with interactive Python and R lessons.
- Analyzed 500,000+ biological data points to identify 25 disease-linked patterns, improving data interpretation accuracy by 20%.
- Automated a predictive system for hormone secretion and degradation with a 90% accuracy rate.

United Bank for Africa – Ikeja, Lagos **2018 — 2020**

Data Scientist

- Collaborated with marketing to design customer segmentation, boosting campaign conversion rates by 20%.
- Managed end-to-end data science projects from data collection to model deployment.
- Developed machine learning models analyzing 100,000+ transactions, identifying cross-selling opportunities that increased revenue by 15% in Q1.
- Built reports and dashboards in Power BI, facilitating 40% of stakeholder decision-making.
- Led a predictive modeling project to reduce loan defaults by 10%, achieving $5M in savings.

University of Nigeria Nsukka – Enugu **2017 — 2018**

IT Analyst

- Built statistical models to process and analyze 2 million records, improving efficiency by 25% and insight accuracy by 91%.
- Presented research insights to project leaders, influencing strategic decisions with data-driven recommendations.
- Developed models to analyze and forecast trends in complex biological data, enhancing R&D decision-making.

Lagos State Environmental Protection Agency – Ikeja, Lagos **2015—2017**

Summer internship (Part time)

- Conducted statistical analysis to identify environmental trends, supporting data-driven decision-making.
- Led an initiative to improve data collection methods, enhancing data accuracy by 30% for strategic planning.
- Analyzed 25+ datasets to identify pollution control measures, reducing airborne contaminants by 15%.
- Developed a methodology to track compliance metrics, increasing policy adherence by 20%.

Leadership Experience

Hult Prize Nsukka – Mentor at Hult prize Competition, Nsukka, Enugu

Globe Research – Expert Reviewer at NASA Funded Research, Toledo, OH

Key Projects

Sentiment Analysis Model Deployment with TinyBERT | Live website | blog

- Developed and deployed a sentiment analysis solution using *TinyBERT*, hosted on *Amazon S3* and *EC2*, with a *Streamlit* frontend. Automated the pipeline with *GitHub* for version control and CI/CD.
- Automated the pipeline with GitHub CI/CD, reducing inference time by 30% for faster responses and improved scalability.

Cloud-Based Static Website Deployment | Live Website

- Developed and deployed a static website on Amazon S3 with AWS CloudFront for fast, low-latency delivery. Configured Route 53 for DNS management and ACM for SSL/TLS encryption. Automated deployment with AWS CLI and Git, enhancing availability and security through edge caching and SSL termination.

Predicted Energy Consumption of a Steel Industry in South Korea | Link

- Prepared a linear regression (MLR) model in R to analyze energy consumption, identifying key factors influencing variability. Identified primary drivers of energy consumption, providing actionable insights that guided strategic energy-saving initiatives, resulting in a 20% annual cost reduction.

Amazon Stock Prediction | Link

- Led development of a predictive machine learning model using diverse Amazon stock data from Kaggle (1997-2020) to achieve an impressive AUC score of 0.89 on validation set, showcasing strong predictive accuracy.

Education

MSc, Data Science (Dec 2023 – Dec 2024), University of the Cumberland – Williamsburg, KY
Relevant Coursework: *Deep Learning, R, Python, Statistics, Big data, NLP, Data mining.*

MSc Data Science-Transferred (Aug 2023 – Dec 2023), University of Memphis – Memphis, TN

MSc, Molecular Biology (Jan 2021 – Aug 2023), Bowling Green State University – Bowling Green, OH

Certifications

Machine Learning with Python- From Linear Model to Deep Learning-MITx | Google Data Analytics
AI programming with Python-Udacity | Introduction to Python-Udemy | Microsoft Power Bi Data Analyst| Getting started with AWS

Technical Proficiencies

- **Machine Learning & Predictive Modeling**: Linear Regression, Logistic Regression, Gradient Descent, Decision Tree, Random Forest, Neural Networks, NLP (spaCy, NLTK), Time Series Analysis.
- **DevOps & Cloud Deployment**: AWS (EC2, CloudFront, Route 53, Lambda), Docker, FastAPI, CI/CD, Airflow, Streamlit.
- **Programming Languages:** Python, R, PHP.
- **Data Engineering & Databases**: Hadoop, Spark, Hive, SQL, PySpark.
- **Data Analysis & Visualization**: Power BI, Tableau, MS Excel.