

David Fakolujo

Calgary, AB • 782-446-2252 • davidfakolujo@outlook.com

LinkedIn: <https://www.linkedin.com/in/davidfakolujo> • Website: <https://davidfakolujo.com>

Summary

A seasoned professional with over 5 years of experience, using programming languages, applying machine learning algorithms, and data science principles to building predictive models and solving real-world business problems.

Technical Skills

- Software & Tools: Python, SQL, R, Power BI, Jupyter Notebook, Tableau, Git, Github, Azure, Agile
- Machine Learning: Scikit-Learn, Tensorflow, Keras, Xgboost, NLP, PyTorch
- Big Data & Data Science: Pandas, NumPy, SciPy, PySpark, Time Series, Matplotlib, Seaborn

Soft Skills

- Strong analytical, active listening, critical-thinking, and problem-solving capabilities
- Proven ability to multitask, prioritize, and deliver results to meet deadlines
- Excellent teamwork skills, strong written and verbal communication abilities, and a high sense of personal accountability

Professional Experience

Risk Modeller

Sept 2025 – Present

Alberta Investment Management Corporation (AIMCo)

- Developing, testing, and refining quantitative models to measure risk across multiple asset classes
- Developing automated workflows for risk analytics and reporting to improve efficiency and ensure data accuracy
- Researching on financial instruments and risk measures, and applying statistical analysis to assess model performance

Client Solutions Specialist

Sept 2024 – Sept 2025

Neo Financial

- Identified and flagged inconsistencies in how agents tracked a specific section of inbound calls due to incorrect workflow usage, and effectively communicated the issue across applicable teams, reducing tracking errors by 30% and improving data integrity
- Discovered and escalated a flawed procedure in the internal repository for handling a specific application flag tied to credit risk indicators, eliminating recurring errors that previously affected 10 – 15% of flagged cases and ensuring proper documentation moving forward
- Analyzed customer interactions and feedback to uncover trends and identified opportunities for service improvements, contributing to enhanced customer experience and satisfaction
- Recommended process enhancements to reduce false positives and increase the speed and accuracy of manual application reviews

Data Scientist

Dec 2022 – July 2024

QuickCheck

- Developed and implemented a machine learning model for user credit scoring, leading to a 6% reduction in default rate and an increase in risk segmentation efficiency of users by 15%
- Continuously monitored the performance of the deployed machine learning model on users' loan requests, ensuring its effectiveness in the production environment
- Executed descriptive analysis of engineered features influencing the deployed model's performance to understand customer behaviors and performance, facilitating informed decision-making on loan requests, and generating actionable insights for relevant stakeholders
- Built a machine learning model and a Python algorithm using email and user data to identify fake emails and check name-email similarity scores, resulting in a 20% decrease in fraudulent account creation
- Presented concise reports and dashboards of key findings and solutions to technical and non-technical stakeholders, ensuring clear communication and alignment with business objectives

Associate, Analytics & Operations

Sept 2019 – Nov 2022

KPMG

- Utilized advanced analytics and predictive modeling to develop a customer analytics platform for financial institutions to segment customers based on their RFM (Recency, Frequency and Monetary value) profile, predict churn rate, and recommend products, resulting in improved customer targeting and retention strategies
- Employed R programming language to achieve the following:
 - Developed models for the valuation of financial derivatives and computed applicable derivatives valuation, resulting in a 20% reduction in valuation processing time, thereby enhancing operational efficiency
 - Established models for staging of loans and performed loan staging, decreasing misclassification rates by 7% and optimizing loan portfolio management for financial institutions
 - Built Expected Credit Loss (ECL) models to accurately assess credit risk and computed impairment using ECL models, leading to a 35% decrease in computation time, and ensuring compliance with IFRS 9 standards
 - Developed data cleaning models, thereby increasing accuracy and ensuring reliability of analytical models
- Co-led a team of 4 in managing the data migration work stream as part of providing project management services for the implementation of core technology solutions for the largest financial services industry in West Africa, ensuring a seamless transition and minimizing downtime

Education

Master's, Data Science and Analytics - University of Calgary 2025
BSc, Mechanical Engineering - University of Ibadan 2016

Personal Projects

- Developed a Long Short-Term Memory (LSTM) model to predict asset prices with a 30-minute prediction window. Applied Multivariate Vector Output and Encoder-Decoder LSTM algorithms, selecting the Encoder-Decoder algorithm for its superior mean squared error performance of 0.00018.
- Created a deep convolutional neural network model for image classification of cats and dogs using a pre-trained MobileNetV2 model as the base, achieving an accuracy of 98%.
- Built a machine learning model to predict good or bad Zomato restaurants. Tested multiple algorithms and selected the XGBoost algorithm for its highest accuracy of 91%.

Courses and Certifications

Programming for Data Science with Python Nanodegree – Udacity 2022
Data Analyst Nanodegree – Udacity 2022
Azure Data Scientist Associate – Microsoft 2023
Power BI Data Analyst Associate – Microsoft 2023
Machine Learning A-Z™: Hands-On Python & R in Data Science – Udemy 2021
Machine Learning Modeling Pipelines in Production – Coursera 2024
Machine Learning Data Lifecycle in Production – Coursera 2024
Machine Learning in Production – Coursera 2024
ITIL® Foundation Certificate in IT Service Management 2022
Diploma in Accounting and Business – Association of Chartered Certified Accountants 2023

Awards and Volunteer Work

- KPMG Tech Cluster Rockstar Award in recognition of outstanding performance – 2021/2022
- Tutored the winning team in a KPMG Global Youth Empowerment AI Hackathon that analyzed how KPMG, Microsoft, UNESCO, and their education partners could economically empower 10 million young people (15-24 years old) by 2030
- Certificate of Achievement for achieving a pass mark of 89% (85% or higher) in the Association of Chartered Certified Accountants (ACCA) Financial Accounting exam – 2023
- Dean's Honors List Awards: First Class Sessional GPA – 2014/2015 and 2015/2016