# Kabiru O. Akande

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## EXPERIENCE

- **OVO Energy**                                                          Bristol, UK
  *Senior Data Scientist*                                        *Nov 2021 - Present*
    - **Next Best Action (NBA)**: AI powered data product on GCP that recommends best actions for customers when interacting with their online accounts.
    - **Customer Clusters**: Customer base clustering for targeted marketing activities, debt recovery and product offerings.
    - **Complaints Analysis**: Analysis of customer complaint journey to identify complaints hotspots and key drivers.
    - **Customer Propensity**: A 360° view of our customers via a suite of ML propensity models.

- **Big Data Enterprise and Artificial Intelligence Laboratory (Big-DEAL)**     Bristol, UK
  *Machine Learning Engineer*                                    *Sept 2019 - Oct 2021*
    - **Conversational-BIM**: Alexa-type chatbot within the AWS ecosystem. Uses automatic speech recognition and natural language understanding for improving construction site productivity.
    - **Healthy-Air**: Time-series predictive models for improving poor indoor air quality. Build data architecture for cloud storage and push notifications for real-time intervention.
    - **Eco-Highway**: An eco-friendly machine learning powered navigation system for avoiding pollution hotspots.

- **MindfulChef**                                                        London, UK
  *Data Scientist*                                               *July 2019 - Sept 2019*
    - **Digital Waiter Recommendation System**: Build a personalised recommender system that outperform existing company framework by 30%. Develop innovative features by embedding recipes in recipe space (**recipe2vector**). Productionise with Flask REST APIs, dockerise and deploy product on Heroku.

- **Li-Fi Research and Development Center**                   University of Edinburgh, UK
  *Research and Teaching Assistant*                              *Nov 2015 - July 2019*
    - **Channel Modelling**: Develop multilayer perceptron models for channel estimation. Model outperform domain state-of-the-art by 5%.
    - **Automated App**: Develop MATLAB application for automating experimental workflows. My app results in 50% improvement in productivity among Lab users.

- **Center for Petroleum Refining and Petrochemicals**                   Dammam, KSA
  *Research and Teaching Assistant*                              *Sept 2012 - Sept 2015*
    - **Research Assistant - Machine Learning**: Research on machine learning for oil reservoir characterisation. Develop and publish novel features engineering technique that results in 10% improvement and over 70 citations.

## EDUCATION

- **University of Edinburgh**                                            Edinburgh, UK
  *PhD in Electrical Engineering*                                *Nov. 2015 – Feb. 2019*

- **King Fahd University of Petroleum and Minerals, KFUPM**              Dammam, KSA
  *Master of Science in Electrical Engineering; GPA: 93%*        *Sept. 2012 – Dec. 2014*

- **Ladoke Akintola University of Technology, LAUTECH**               Ogbomoso, Nigeria
  *Bachelor of Technology in Electrical and Electronics; GPA: 86%*   *Sept. 2004 – Dec. 2009*

## PROGRAMMING SKILLS

- **Languages**: Python, SQL    **Technologies**: AWS/GCP, Keras, Tensorflow, Kubernetes, Kafka, Airflow

## ACHIEVEMENTS AND AWARDS

- Three US Granted Patents| Endorsed as UK Promising Talent by Royal Academy of Engineering| Digital Waiter won most innovative prize at 2019 S2DS

- **Personal Interest:** Footballing| Long Distance Running| Volunteering (Coding & Tutoring ML Concepts)