POPOOLA, AYOMIDE PETER

Tel: +44 7586 367163   **Email Address:** popoolaayomide37@gmail.com

LinkedIn profile: https://www.linkedin.com/in/ayomide-popoola-60092a12a/

Github profile: https://github.com/peteray-dev/

CAREER OBJECTIVE

Innovative data scientist with expertise in machine learning, statistical modeling and data analysis, committed to building a rewarding and challenging career, enhance knowledge, utilize capabilities and skills to deliver impactful solutions in a dynamic institution that prides itself in giving substantial opportunities.

EDUCATION

- **M.Sc. Data Science (Distinction)**

  Manchester Metropolitan University, Manchester, United Kingdom

  - Data Management and Governance, Exploratory data analysis, Computational Mathematics and Statistics, Algorithms and Data Structures, Machine learning, Deep learning (Pytorch, NLP), High Performance Computing, Big Data Technologies (PySpark) and Version Control (Git).

- **B.Sc. Biochemistry (First Class Honours)**

  University of Ilorin, Ilorin, Nigeria, 2019

  - Member of Life Sciences Quiz Team.
  - Member of University of Ilorin Undergraduate Research Society.

WORK EXPERIENCES

- **Data Scientist/Tutor**

  Cambridge Spark Ltd (Lloyds Bank Group) United Kingdom, Sept'24 – Nov'24

  - Contributed to the development of machine learning model used in bank section such as risk, fraud detection, time series forecasting and counterfeit bank note detection with an accuracy of 94%.
  - Provided tutoring to graduate interns in the Lloyds Bank Group Data Science and AI Bootcamp resulting into a 95% project completion
  - Worked closely with students to implement and explain models used in financial services as well as deploying them on cloud platforms.
  - Led and assessed projects by providing constructive feedback that improved project outcome by 45%.

- **Software Engineer**

  Hyperiondev Bootcamp, (CoGrammar), United Kingdom, Feb'24 – Apr'24

  - Developed proficiency in Python programming and related frameworks through hands-on projects
  - Designed and implemented algorithms and data structures, enhancing skills in unit testing and object-oriented programming.
  - Hyperiondev portfolio: https://www.hyperiondev.com/portfolio/AP24010012737/

- **Teaching Assistant – Special Education Needs (Part Time)**

  The Orchard School (Aspire People), United Kingdom, Nov '23 – Aug'24.

  - Assisting in creating an inclusive and supportive learning environment for student with needs
  - Collaborated with teachers to implement strategies that promote inclusive education.
  - Provided one-on-one support to students with specific learning or behavioural challenges.

- **Project Data Analyst**

  Funcast Consulting and Management Limited, Jun '21 - Sept '23
  - Managed project budget, schedules and data, supervised project execution in Agriculture, Science, and Technology.
  - Conducted data analysis and created reports to stakeholders and departmental heads to help make decision that improve execution time by 65%
  - Identified potential risks and obstacles that might arise during the project based on past data which improve the company's profit by 36%
  - Contributed to community development by collecting data from rural dwellers to design projects that generated revenues

- **Software Developer (MERN)**

  Alabian Solutions Limited, Nov '20 - May '21

  - Usage of front-end and backend JavaScript framework to develop high quality software reducing page load times by 35%.
  - Develop highly scalable and testable applications, troubleshoot and debug applications.
  - Built responsive user interfaces and integrated API/RESTful API for server-side technologies.
  - Relevant ability to use databases and experienced in application maintenance and deployment.

- **Medical record/information officer**

  Bells University of Technology Health Centre, Ota, Ogun State, Nov '19 - Oct '20

  - Provision of medical information to patients.
  - Documentation and filing of students and staff medical history.
  - Recording and entry of daily medical consultation.

SKILLS

- **Data Science Techniques:**
  - Data wrangling, data cleaning, data intuition, data mining, data ethics
  - Data visualization and analysis of various data information
  - Machine learning, statistical and predictive modelling
  - Time Series Forecasting
- **Technologies:** AWS, PySpark, Pytorch, power BI, Scikit learn, Scipy, Pytest, Git, SLURM, Visual Paradigm, MySQL, Neo4j,
- **Operating System:** Linux, Windows, Mac
- **Programming Languages:** C#, JavaScript, SQL, Python, R
- **Computer literacy:** Microsoft Office Suite
- **Software Development**: HTML, CSS, Bootstrap, JavaScript, React, Express, Node Js
- Good communication, management and team playing skills.
- Outstanding thinking, and research skills

PROJECTS

- **Real Time Market Data Forecasting (Jane Street):** Predicting financial market responders
- **Performance Analysis of Molecular Dynamics Simulation:** Conducted a comprehensive performance analysis of molecular dynamics by comparing serial, OpenMP and MPI implementations.
- **Hybrid Recommendation System**: Developed a Graph Neural Network (GNN)-based recommendation engine for food recipes, demonstrating ability to analyse and apply complex algorithms.
- **Car Price Prediction Model**: Created a machine learning model for predicting car prices using AutoTrader data, showcasing skills in predictive analytics.
- **Skin Cancer Classification**: Evaluated custom and pretrained CNNs for deep learning-based skin cancer classification.
- **Monet-like Painting Generation**: Generated Monet-like paintings using GAN and CyclicGAN, illustrating creativity in machine learning applications.

- **Transport Prediction in Spacecraft**: Developed models for predicting passenger transport anomalies using machine learning.
- **Food Detection**: Implemented CNN and VGG-19 for food detection, highlighting expertise in image classification tasks.
- **Big Data Analysis**: Conducted statistical testing on Transport for London cycling data from 2014, applying big data technologies.

VOLUNTARY AND EXTRACURRICULAR ACTIVITIES

Computing Insight UK, Cluster Challenge – October – December, 2024
- Analyzed and optimized compute-intensive workloads, balancing performance and energy efficiency
- Designed and implemented resource allocation strategies to efficiently distribute compute resources (CPU, GPU, nodes) for multiple workloads.
- Wrote and optimized SLURM job scripts to automate and manage workload runs on Alces Cloud HPC clusters.
- Worked with companies such as DNN, OCF, Logicalis, AlcesFlight

JPMorgan Chase & Co. Quantitative Research Virtual Experience Program on Forage - October 2024
- Completed a simulation focused on quantitative research methods
- Analyzed a book of loans to estimate a customer's probability of default
- Used dynamic programming to convert FICO scores into categorical data to predict defaults

Hackathon - Manchester Metropolitan University
Team Member March 2024
- Development of a story language translation application, contributing to business ideas in technology innovation.

Entrepreneurship and Vocational Training for Youths, Women and Rural Farmers

Trainer July 2021 – February 2023
- Provided business management and start-up analysis, counselling, and sharing business ideas.

Academic Tutor (Undergraduate)

Department of Biochemistry, University of Ilorin October 2017 – June 2019
- Organized Tutorial and teaching students in lower levels in various courses that are complicated.
- Advising and sharing basic skills to achieving academic success

HONOURS/AWARDS

2023	AI and Data Science Postgraduate Scholarship (Office for Students)
	Manchester Metropolitan University
2019	First Class Honours (Awarded)
2019	Best Graduating Student Award, Department of Biochemistry.
2019	University Scholar Award, University of Ilorin, Ilorin.
2016 – 2018	University of Ilorin Undergraduate Scholarship Award.
2014	Awarded the Best Student in Biology, Further-Mathematics, Physics and Agricultural Science.