

Kenechukwu Ajufo

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PERSONAL PROFILE

- Computer Science graduate currently pursuing a Master's degree in Data Analytics on track for a 2:1.
- Two years experience in Software (Web) development, presently working part time as a Computing Lab Assistant at the National College of Ireland assisting lecturers with computing tutorials.
- Good knowledge of Python and familiar with R. Gained experience building machine learning algorithms and developing data visualizations and dashboards for academic projects.
- Looking for opportunities that will allow me to utilize my technical and analytical skills. Passionate about the intersection of Machine Learning and Product Management.
- Visa: Currently on Stamp 2. Expected to graduate in March 2021. Eligible under the 1G third level graduate scheme to work without restriction from March 2021 - March 2023.

EDUCATION

National College of Ireland

Dublin, Ireland

Master of Science, Data Analytics

Jan. 2020 – Jan. 2021

Thesis

Utilizing Machine Learning To Enhance Recommender Systems In Music Streaming Applications

Currently working on the thesis, the aim is to build a Music Recommender System using audio features, user metadata and machine learning techniques which can intelligently predict next song and playlist continuation recommendation.

Technologies Used: Python, Pandas, NumPy, scikit-learn, matplotlib, TensorFlow, Keras

Academic Projects

Sentiment Analysis of Hotel Reviews using Deep Learning

(Team of three) performed a sentiment analysis on Trip Advisor Reviews dataset. The project focused on using two Deep Learning models (LSTM and BERT) to predict the hotel's rating using it's reviews.

Technologies Used: Python, Pandas, NumPy, scikit-learn, seaborn, matplotlib, TensorFlow, PyTorch, Keras, GloVe embedding, transformers.

Link:<https://github.com/kxnxchukwu/DMML2Project>

Analysis on the Relationship between Population Growth Rate, Life Expectancy and the Gross National Income

(Team of three) analyzed three public datasets from ArcGIS Hub & Datahub. The objective of the project was to demonstrate the team's knowledge of data wrangling (transforming data from one form to another) and Relational (PostgreSQL) & NoSQL (MongoDB) databases.

Technologies Used: Python, Pandas, Numpy, requests, pymongo, zipfile, psycopg2, sqlalchemy, matplotlib, seaborn, plotly.express, statsmodels.

Link:<https://github.com/kxnxchukwu/DAPProject>

London Underground High-Speed Line Simulation and Optimization

The project involved discrete event simulation and optimization. The project modelled, simulated and optimized the London Old Oak Commons to Birmingham Interchange section of the London Underground high-speed line.

Technologies Used: Python, SimPy, Pandas, Numpy, matplotlib, Google Colab.

Link:<https://github.com/kxnxchukwu/MSOProject>

Exploring Student Academic Performance in Portugal using Machine Learning

Built a C5.0 Decision Tree Model to predict student academic performance.

Technologies Used: R, C50, printr, data.table

Link:<https://github.com/kxnxchukwu/DAPAPProject>

Module Highlights

Statistics for Data Analytics, Data Mining and Machine Learning, Database & Analytics Programming, Business Intelligence & Business Analytics, Domain Application of Predictive Analytics, Modelling, Simulation and Optimization, Research in Computing, Data Governance and Ethics, Research Project.

Babcock University

Bachelor of Science, Computer Science

Ogun State, Nigeria

Sept. 2010 – June 2017

Research Project

Design and Implementation of an Online Aptitude Test for Staff Recruitment

Built a web application for managing prospective job applicants.

Technologies Used: PHP, MySQL, HTML, CSS3, JavaScript, AJAX.

Core Modules Included

Software Engineering, Computer Architecture, Internet Technologies, Operating Systems, Object-Oriented Design & Programming

Academic Activities

- Member, Babcock University Computer Club (BUCC)
- Participant, Introduction to Employability Skills – Powered by PSENSE
- Participant, BU Research Fair, Babcock University, Ilishan-Remo, Ogun State, April 2017

EXPERIENCE

Computing Lab Assistant

Sep. 2020 – Present

National College of Ireland

Dublin, Ireland

- Assist students with any questions or queries they have during tutorials for the following modules - Database & Analytics Programming, Discrete Mathematics, Data Application Development/Programming for Big Data, and Business Data Analysis.

Software Developer

Feb. 2019 – Oct. 2019

Chams Plc

Lagos, Nigeria

- Developed and maintained code for in-house and client websites primarily using HTML, CSS, SASS, JavaScript, jQuery, SQL and ASP.NETCore MVC.
- Worked closely with designers and other developers to develop, document, and manage in-house and client projects.

System Developer Intern

Nov. 2017 – Oct. 2018

Precise Financial Systems

Lagos, Nigeria

- Built and maintained proprietary software applications using C#, ASP.Net, SQL for an array of clients.
- Investigated and resolved bugs in my code.

CORE SKILLS

Programming Languages: Python, R, L^AT_EX For Document Formatting (Gained experience using these programming languages during Master's).

Machine Learning Algorithms: Linear Regression, Logistic Regression, Decision Trees, Random Forest, Naïve Bayes, LSTM (Used in Academic Projects)

Statistics: Descriptive & Inferential Statistics, Hypothesis Testing, Time Series Analysis (Used in Academic Projects)

Tools: Git & GitHub (Familiar using Git & GitHub for version control).

Data Management: Microsoft SQL, MongoDB, PostgreSQL. (Familiar with querying, storing and transferring data using these Database Management Tools)

Data Wrangling: NumPy, Pandas (Comfortable using NumPy and Pandas to prepare, clean and transform data for further analysis)

Data Visualization: PowerBI (Familiar), Tableau (Elementary), Matplotlib (Elementary), Seaborn (Elementary), ggplot (Elementary)

Operating Systems: Windows (Intermediate), Linux (Elementary), MacOS (Elementary)

INTERESTS

Recommender Systems, Machine Learning, Deep Learning, Human-Computer Interaction, Software Engineering