

# Olusola Timothy OGUNDEPO

• Data scientist

• Google IT Certified

• Researcher

• Trainer

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Aspiring data scientist with a robust academic foundation in computer science, complemented by extensive research and data analytics experience. Passionate about applying data science to solve real-world challenges through advanced machine learning and AI techniques. Adept at using data-driven insights to drive informed decision-making in both research and professional settings.

## EDUCATION

**B.Sc. (Ed.) Computer Science** – University of Ilorin, Ilorin, Nigeria

*Graduated: Oct 2023*

*Achievements:* Best Graduating Student in the Department of Computer Science and Education

**ALX-T Data Analyst Nanodegree** – Udacity

*Completed: Oct 2022*

*Achievements:* Among the Top 5 candidates in Adeniran's team that successfully completed all projects on time

## SKILLS

**Programming Languages**

Python, R, SQL, Git, Java, C, C++

**Business Intelligence Tools**

Power BI, Tableau, MS Excel

**Research Tools**

ArcGIS, Seaborn, Matplotlib, Plotly, Scikit-Learn

**Office Tools**

Microsoft Office 365

**Data Analysis Skills :**

Data visualization, Statistical analysis, Predictive modelling, Data Cleaning, and Automation

**Soft Skills**

Team Collaboration, Problem-Solving, Data Storytelling, Effective Communication with Both Technical and Non-Technical Stakeholders, and Leadership

## PROFESSIONAL EXPERIENCE

**Data Specialist** – Ministry of Science and Technology, Lagos State *(Oct 2023 – Sep 2024)*

- Transformed health-related raw data into analysable formats using Python, ArcGIS, and Power BI.
- Published visualisations on the Eko360 website, enabling public health officials to make data-driven decisions.
- Collaborated with cross-sector experts to enhance data-sharing and analysis capabilities across ministries.

**Freelance Data Analyst** - Self-Employed / Independent Consultant *(Apr 2020 – till Date)*

- Conducted comprehensive data cleaning and wrangling using Python and Excel, ensuring high data quality and reliability for accurate analysis.
- Utilised Python libraries such as BeautifulSoup, Scrapy, and Requests to perform web scraping, extracting valuable data from online sources for business intelligence and research.
- Developed insightful data visualisations using Seaborn and Matplotlib, enabling informed decision-making for clients.

- Implemented machine learning techniques to solve project-specific challenges, delivering actionable insights and measurable results.

**Data Science Intern** – GBG Analytics Limited (On-site) *(Nov 2019 – Oct 2022)*

- Advocated for data-driven decision-making by transforming raw data into actionable insights through effective storytelling and interpretation.
- Contributed to data science projects, providing strategic insights that informed business decisions.

**Data Science Intern** – 10 Academy (Remote) *(May 2019 – Oct 2020)*

- Contributed to a range of machine learning and data science projects, gaining hands-on experience in applying data-driven solutions.
- Demonstrated proficiency in database management using Python and SQL, ensuring efficient data organisation and retrieval.
- Conducted web scraping to gather Twitter data for subsequent analysis, showcasing data acquisition and manipulation skills.

## RESEARCH & PROJECT EXPERIENCE

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**Deep Learning for Personalized Book Recommendation System** 

- Applied advanced deep learning techniques, including collaborative filtering and transformer models, to develop a robust book recommendation system.
- Conducted an in-depth assessment of the Bookcrossing dataset, addressing data quality issues to ensure high integrity for model training.
- Optimised the system using various models and selected the most effective approach, a critical learning experience for future research in AI-based systems.

**Student Performance Evaluation** 

- Extracted and transformed data from over 600 features, focusing on 29 key indicators to streamline analysis.
- Utilised multivariate visualisation techniques to uncover the impact of parental involvement on student performance.
- Provided insights into educational outcomes, demonstrating proficiency in data wrangling and statistical analysis.

**Analysis on WeRateDog Tweets** 

- Resolved quality and tidiness issues within the dataset, ensuring accuracy for subsequent analysis.
- Performed detailed transformations and visualisations to extract meaningful patterns, contributing to social media trend analysis.

**The Movies Database Analysis** 

- Formulated over 8 insightful analysis questions to guide the project's objectives.
- Conducted comprehensive data wrangling and cleaning, addressing both quality and tidiness issues within the dataset to ensure data accuracy and coherence.
- Successfully answered 100% of the identified questions, employing diverse visualisation techniques to provide clear and comprehensive insights.

## EXTRACURRICULAR & VOLUNTEER EXPERIENCE

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**Instructor** - Thomas Adewumi University (TAU) AI General Assembly *(June 2024)*

- Introduced final year students to programming, focusing on Python and R.
- Developed presentation slides to enhance engagement and ensure a smooth flow of sessions.

- Hosted and managed shared code repositories on GitHub, ensuring version control and accessibility.
- Supported fellow instructors in engaging with students and addressing their needs during presentations.
- Taught Power BI for data transformation and building dashboards to improve students' data visualisation skills.
- Assisted students in creating professional LinkedIn profiles to enhance their online presence and career prospects.

**Facilitator** – Lagos Bureau of Statistics Power BI Training

(May 2024)

- Assisted in teaching Power BI to LBS employees, enhancing their data analysis and visualisation skills.
- Guided professionals through practical sessions on data transformation and modelling.
- Ensured participants could effectively connect data sources and create comprehensive Power BI dashboards.

**Volunteer** – Deep Learning IndabaX Nigeria

(Jun 2023)

- Organized and facilitated sessions focused on the functionalities and applications of AI tools.
- Raised awareness about AI among students and professionals.
- Coordinated with speakers and participants to ensure a smooth flow of events.

## CERTIFICATIONS

**Working in a Digital World: Professional Skills – IBM Skill Build** 

(2024)

- The Professional Skills learning plan covered in this professional certificate include: Collaborate Effectively, Present with Purpose, Interpersonal Skills, Deliver Quality Work with Agility, and Solving Problems with Critical and Creative Thinking. These skills have successfully shaped my professional abilities in various facet of digital environment.

**Google IT Automation with Python Specialisation – Google/Coursera** 

(2022)

- This specialisation course developed by Google covers intricate of Python and some other tools for IT automation. The courses covered include: Crash Course on Python, Using Python to Interact with the Operating System, Introduction to Git and GitHub, Troubleshooting and Debugging Techniques, Configuration Management and the Cloud, Automating Real-World Tasks with Python

**Power BI Super Users Workshop – Enterprise DNA** 

(2022)

- This workshop focused on optimising key features of the Power BI suite. It covered mastering the four pillars of Power BI Desktop: data loading and transformation, data modelling, DAX calculations, and report development. The course enhanced my skills in building analytical models, utilising advanced DAX techniques, creating compelling reports, and implementing best practices for Power BI within organisations.

**Microsoft Excel Power Pivot** <sup>1</sup> **& Power Query** <sup>2</sup> – GoSkills.com

(2022)

- These two courses focused on advanced Excel features, Power Pivot and Power Query. It covered techniques for data modelling, data transformation, and creating advanced reports in Excel. The training enhanced my skills in manipulating large datasets, performing complex calculations, and automating data workflows, significantly improving efficiency in data analysis tasks.

**Mastering DAX Calculations – Enterprise DNA** 

(2022)

- This course focused on advanced Data Analysis Expressions (DAX). It covered complex functions, optimisation techniques, and best practices for efficient data modelling. The training

enhanced my ability to perform intricate data analysis, create sophisticated measures, and develop high-performing analytical solutions.

#### [Spreadsheet Fundamentals Track – Datacamp](#) (2022)

- This professional certificate comprised five courses: Introduction to Google Sheets, Data Analysis in Google Sheets, Intermediate Google Sheets, Pivot Tables in Google Sheets, and Data Visualisation in Google Sheets. These courses enhanced my ability to effectively manipulate, analyse and visualise data using Google Sheets.

#### [Importing & Cleaning Data with Python Track – Datacamp](#) (2022)

- This professional certificate enhanced my skills in importing data into Python from various sources -including Excel, SQL, SAS, web, and APIs—cleaning and diagnosing dirty data, reshaping DataFrames using pandas, and applying data manipulation techniques in a real-world project such as analysing Airbnb market trends.

#### [Applied Data Science II: Machine Learning & Statistical Analysis \(with honors\)](#) (2021) – [World Quant University](#)

- This professional course focused on advanced data science topics, including machine learning algorithms and statistical analysis techniques. It enhanced my skills in building predictive models, performing statistical inference, and applying machine learning methods to real-world datasets.

#### [Time Series Analysis and Forecasting using Python – Udemy](#) (2021)

- Acquired practical skills in time series analysis and forecasting using Python. Learned to manipulate time-stamped data, identify trends and seasonal patterns, and build predictive models with libraries like pandas and statsmodels. This course enhanced my ability to forecast future data points based on historical trends.

#### [TensorFlow for AI, Machine Learning, and Deep Learning](#) (2020) – [DeepLearning.AI/Coursera](#)

- This course provided a comprehensive introduction to TensorFlow, an open-source machine learning framework, which enhanced my skills in building and training neural network models.

#### [Excel Skills for Business Specialisation – Macquarie University/Coursera](#) (2020)

- This specialisation enhanced my Excel skills for business applications, covering advanced formulas, data modelling, pivot tables, and interactive dashboards—improving my ability to efficiently analyze and visualize business data.

#### [SQL for Data science – University of California \(UC Davis\)/Coursera](#) (2020)

#### [Applied Data Science I: Scientific Computing & Python for Data Science](#) (2019) – [World Quant University](#)

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Kindly visit [here](#) to see all my professional certificates

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## CONFERENCES AND WORKSHOPS ATTENDED

#### [DevFest Ibadan 2024 Conference](#) (2024)

- DevFest Ibadan is an annual conference organised by the Google Developer Group (GDG) Ibadan. The conference is a celebration of innovation, knowledge-sharing and community building - which provides a platform for tech, professionals, students and enthusiasts to learn.

#### [University of Ilorin 239th Inaugural Lecture](#) (2023)


- “*Deconstructing the Crawling Mindsets: Combating Security Challenges of the Net-Centric Computing*”, delivered by Professor Rasheed Gbenga Jimoh, Department of Computer Science, Faculty of Communication and Information Sciences, University of Ilorin.

#### Deep Learning IndabaX Nigeria 2022 Conference (2022)

- IndabaX is a program designed to strengthen the machine learning community in African by spreading knowledge and building capacity in machine learning (ML) and artificial intelligence (AI).


## CONTRIBUTIONS (OPEN-SOURCE DEVELOPMENT)


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**Dockgispy Package** – Contributed to the development of the Dockgispy package, a low-code, all-in-one Python-GIS environment designed to streamline GIS workflows by eliminating setup complexities, enhancing productivity, and accelerating the transition from ideation to development. 

## PUBLICATIONS & ARTICLES

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**Medium** Machine Learning Model Testing: A Comprehensive Guide to Effective Validation  (2024)

**Medium** Practical Guide to Testing Machine Learning Models in Python  (2020)

## SCHOLARSHIPS, PRIZES, DISTINCTIONS AND/OR AWARDS

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- FestMan Learning Hub Top Performing and Engaging Intern Award (2024)
- Spark9ja x DataCamp Scholarship (2024)
- Top performing student in the Department of Computer Science and Education award (2023)
- ALX-T Data Analyst Nano degree scholarship (2022)
- DSN Artificial Intelligence Datacamp Scholarship (2020)
- Coursera's premium grant through the Coursera for Campus Initiative during the COVID-19 pandemic (2020)

## PROFESSIONAL MEMBERSHIP / AFFILIATIONS

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**Member** Google Developer Groups – GDG Ibadan (2024)

**Member** Data Accelerator Fellow (DAF) (2024)

**Member** Unilorin Scholars Forum (2023)

**Member** ALX Alumni Community (2022)

**Member** 10 Academy Alumni Community (2022)

**Member** 14G Community (2022)

**Member** AI+ Data Science Nigeria (DSN) (2020)