

# Olusola Timothy OGUNDEPO

• Data scientist

• Google IT Certified

• Researcher

• Trainer

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## PROFILE SUMMARY

A data scientist with over four years of experience specialising in using Python, R, and business intelligence tools such as Power BI and Tableau to deliver actionable insights and innovative solutions. Expertise in machine learning, statistical analysis, and data visualisation with impactful contributions in public health, education, and consulting. Experienced in developing AI-powered systems, mentoring professionals, and advancing data-driven decision-making to create measurable outcomes.

...click [here](#) to visit my website

## EDUCATION

**B.Sc. (Ed.) Computer Science** – University of Ilorin, Ilorin, Nigeria (Oct 2018 – Oct 2023)

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

**ALX-T Data Analyst Nanodegree** – Udacity (Apr 2022 – Oct 2022)

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

## SKILLS

<b>Programming Languages</b>	Python, R, SQL, Java, C, C++
<b>Business Intelligence Tools</b>	Power BI, Tableau, MS Excel
<b>Research Tools</b>	ArcGIS, Git, Quarto, Plotly, Scikit-Learn
<b>Office Tools</b>	Microsoft Office 365
<b>Data Analysis Skills</b>	Data visualization, Statistical analysis, Predictive modelling, Data Cleaning, and Automation
<b>Soft Skills</b>	Team Collaboration, Problem-Solving, Data Storytelling, Effective Communication with Both Technical and Non-Technical Stakeholders, and Leadership

## PROFESSIONAL EXPERIENCE

**Data Specialist** – Lagos State Ministry of Science and Technology (Oct 2023 – Present)

- Successfully transformed 100% of raw health data into structured, analysable datasets using Python, ArcGIS, and Power BI, resulting in a 65% increase in data accuracy and faster turnaround times for data-driven projects.
- Leveraged advanced data analytics and visualisation techniques to pinpoint water deficit areas, delivering a 70% enhancement in water production and distribution efficiency across Lagos State.
- Published interactive Power BI dashboards on the Eko360 website, enabling over 60 public health officials and stakeholders in Lagos State Ministries to make swift, evidence-based decisions.
- Collaborated with cross-sector experts, including Data Science Nigeria (DSN) fellows, to boost data-sharing capabilities, achieving 100% accessibility of information for all relevant stakeholders and improving inter-ministerial cooperation.

**Data Analyst** – FestMan Talent Hub, Ghana (Contract) (Jul 2024 – Sep 2024)

- Automated ETL processes in Power BI for the FestMan Electronic Sales Performance project, reducing data processing time by approximately 25%.

- Identified key trends through statistical data analysis, driving a 15% improvement in operational efficiency and benefiting a stakeholder group of seven.
- Built interactive dashboards that increased data-driven decision-making by 30%, based on survey responses from these stakeholders.
- Deployed streamlined Power BI data modelling, connecting multiple datasets, to cut analysis time by 20% while enhancing forecast accuracy.

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

- Executed comprehensive data cleaning and wrangling using Python, Excel, and Google Sheets, reducing data errors by 85% and ensuring robust data accuracy for in-depth analysis.
- Utilised Python libraries (BeautifulSoup, Scrapy, and Requests) for web scraping, increasing data coverage by 70% and enhancing business intelligence capabilities.
- Developed interactive data visualisations with Plotly, reducing reporting time by 40% and enabling advanced data interaction and in-depth insight exploration for clients.
- Implemented custom machine learning pipelines to tackle project-specific challenges, delivering actionable insights that boosted client ROI by an average of 20%.

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

- Advocated for data-driven decision-making by transforming raw data into actionable insights through effective storytelling and interpretation.
- Automated analytics processes with Google Sheets, Google Apps Script (JavaScript), and Python, reducing manual work by 80%.
- Contributed to data science projects, providing strategic insights that informed business decisions.
- Introduced advanced forecasting models for a business client's sales process, increasing forecast accuracy by 40% and enabling proactive supply-chain management.
- Deployed dynamic BI dashboards to monitor key performance indicators, reducing reporting time by 60% and ensuring real-time business analysis for more informed decision-making.

**Data Science Intern** – 10 Academy, Accra, Ghana (Remote) *(May 2019 – Nov 2019)*

- Contributed to multiple machine learning and data science projects, applying data-driven techniques that enhanced project efficiency and accelerated outcomes.
- Demonstrated proficiency in Python and SQL for database management, optimising data organisation and improving retrieval speed by streamlining processes.
- Employed web scraping methods to gather Twitter data for subsequent analysis, showcasing robust data acquisition and manipulation skills.

## EXTRACURRICULAR & VOLUNTEER EXPERIENCE

**Instructor** – Thomas Adewumi University (TAU) Data Analytics in Spreadsheet *(Feb 2025 – Present)*

- Introduce final-year students to data analytics fundamentals using both Microsoft Excel and Google Sheets, guiding them through data entry, structuring, formatting, and cleaning.
- Demonstrate best practices in spreadsheet-based data analysis and visualisation, enabling students to transform raw figures into clear, actionable insights.
- Tailor instruction to real-world scenarios, helping students apply essential analytic techniques in academic projects and future professional roles.
- Foster an engaging learning environment by encouraging hands-on practice, collaborative problem-solving, and regular peer feedback sessions.

**Instructor** – Thomas Adewumi University (TAU) AI General Assembly *(Jun 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)*

- Contributed to designing and delivering targeted training sessions to help LBS employees develop advanced data analysis and visualisation capabilities using Microsoft Power BI.
- Guided professionals through practical exercises focusing on data transformation, modelling, and best practices in building dynamic reports and dashboards.
- Provided one-to-one support to ensure participants could seamlessly connect multiple data sources and apply analytical techniques in real-world scenarios.
- Worked closely with administrative staff to coordinate logistics, ensuring all attendees had the tools and resources needed for a successful learning experience.

#### **Volunteer** – Deep Learning IndabaX Nigeria

*(Jun 2023)*

- Contributed to the planning and execution of a large-scale AI-focused event, aimed at fostering greater understanding and practical engagement with machine learning among students, professionals, and researchers.
- Organised and facilitated sessions covering the functionalities and real-world applications of emerging AI tools, helping attendees bridge theory and practice.
- Provided hands-on support during workshops and networking sessions, raising awareness about AI's transformative potential across diverse industries.
- Collaborated closely with guest speakers, academic institutions, and volunteers to coordinate logistics, ensuring the event ran seamlessly and attendees could fully benefit from the programme.

## **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 the analysis.
- Utilised robust multivariate visualisation methods to reveal the impact of parental involvement on academic outcomes, offering deeper insights into student achievement trends.
- Delivered actionable recommendations for educators and policy-makers, underpinned by rigorous empirical evidence from comprehensive 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.

## 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)

- Gained skills in importing data from diverse sources (Excel, SQL, SAS, web, APIs), diagnosing and cleaning messy data, reshaping DataFrames using pandas, and applying data manipulation techniques in a practical context, including Airbnb market trend analysis.

### 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 – Udemyl

(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)

- This course covered the core concepts and techniques of SQL for data science. It involved writing advanced queries, managing relational databases, and optimising data retrieval. The training strengthened my ability to construct data pipelines, extract actionable insights from large datasets, and support data-driven decisions.

### Applied Data Science I: Scientific Computing & Python for Data Science

(2019)

– World Quant University 

- This professional course introduced essential Python libraries for data analysis and scientific computing, covering topics such as NumPy, pandas, and data visualisation. It equipped me with the skills to build robust data pipelines, perform complex computations, and address real-world challenges in a data-centric environment.

Please click [here](#) to see more of my professional certifications.

## 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.

- 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 (2020)
- during the COVID-19 pandemic

## 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)