

SOLOMON ADEBAYO

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SKILLS SUMMARY

- **Languages:** Python, SQL, R, VBA
- **Frameworks:** Pandas, NumPy, Scikit-Learn, Matplotlib
- **Tools:** Microsoft SQL Server, Azure Data Factory, dbt, Power Automate, Power BI (DAX), Excel
- **Platforms:** PyCharm, Jupyter Notebook, Azure DevOps, Git
- **Core Skills:** ETL & ELT Processes, Data Pipeline Design, Machine Learning, Data Warehousing, Data Modeling, Dashboard Development, KPI Reporting, Data Visualization, Statistical Modelling, Predictive Analytics, Report Automation, Feature Engineering, Business Requirements Analysis
- **Soft Skills:** Stakeholder Engagement, Technical Communication, Analytical Thinking, Attention to Detail, Time Management, Team Collaboration, Documentation

EXPERIENCE

Data Engineer

March 2025 – Till Date

Rural Payment Agency UK

- Leading the data optimization initiatives for the Countryside Stewardship payment pipeline using Oracle SQL Developer and PL/SQL to review and process customer claims, enabling the accurate disbursement of environmental stewardship grants across England; streamlined complex queries and improved pipeline performance through advanced indexing and data partitioning strategies.
- Collaborating with data engineering and infrastructure teams to design and implement a secure, scalable data migration strategy from on-premises Oracle databases to Microsoft Azure, migrating over 15 million records using Azure Data Factory and Blob Storage, which reduced data retrieval time by 40% and laid the foundation for advanced analytics in the cloud.
- Handled over 15+ ad-hoc data requests per month from Data, Insight, and Outcomes teams by developing and maintaining parameterized stored procedures and dynamic SQL scripts in Oracle; resolved one-off IT tasks such as data patching, query performance tuning, and reducing turnaround time for urgent data pulls by 35%.
- Ensured data integrity and governance across key Rural Payments Agency schemes such as BPS and Countryside Stewardship (CS) by implementing schema validation rules, data auditing frameworks, and version-controlled ETL workflows using Oracle PL/SQL and Azure Data Factory, enabling traceable, compliant data transformations in support of regulatory reporting and internal audits.
- Support the development of Power BI dashboards and data models to monitor performance metrics for Rural Payments Agency schemes such as Countryside Stewardship and Environmental Stewardship, integrating data from Oracle databases and Azure Data Lake; enabling over 50 internal stakeholders to access real-time insights on payment volumes, processing efficiency, and compliance rates.

Data Quality and Automation Analyst

January 2025 – March 2025

DN Colleges Group UK

- Built and maintained Power Automate flows to track and consolidate updates from over 15 spreadsheet tracking Quality Improvement Plans (QIPs) across SharePoint document libraries for different curriculum Areas, automating ingestion into Power BI via scheduled refreshes and parameterized datasets; to provide real-time visibility into QIP progress, overdue actions, and data quality metrics across departments for weekly governance reviews across 5 directorates.
- Designed and implemented an operational Power BI dashboard to centralize and visualize data on lesson observations and session visits, integrating inputs from structured Excel templates and SharePoint lists via Power Query and automated refresh schedules; enhanced real-time visibility for the Quality Team, enabling data-driven supervision and monitoring of over 200+ classroom visits per term
- Developed a Power BI dashboard to aggregate and analyze student survey and feedback data across multiple cohorts, using Power Query, DAX measures, and row-level security to provide real-time, role-specific insights for the Senior Leadership Team; enabled instant visibility into satisfaction trends, learning experience metrics, and response rates, supporting evidence-based quality improvements and compliance for Ofsted inspections.

Data Science Research Assistant

April 2024 – December 2024

University of Lincoln, United Kingdom

- Successfully organized and managed over 10 years of observational data and test scores from multiple folders corresponding to individual students, consolidated data into simpler format using R programming, and ensured data accuracy and privacy.
- Conducted comprehensive cluster analysis to identify patterns and groupings in behavior patterns of students with learning disabilities and validated insights using statistical tests.
- Collaborated effectively with the research team, including data scientists, educators, and psychologists, to share insights and recommendations based on data analysis, contributing to the development of targeted educational strategies and interventions for children with learning disabilities in the United Kingdom.
- Developed Power BI dashboards to visualize student records and behavioral patterns, integrating with real-time student record systems to automatically update KPIs and detect anomalies and eccentricities efficiently

Data Science Faculty (Contract)

March 2021 – April 2024

Rome Business School Italy

- Co-supervised the execution of over 40 industry-relevant capstone projects and case studies for master's in data science. Projects cut across areas such as financial forecasting using machine learning algorithms, natural language processing, recommendation systems for e-commerce platforms, and healthcare analytics for patients.
- Designed and delivered over 70 high-quality lectures, seminars, and workshops on a wide range of data science topics, catering to diverse student backgrounds and learning styles within the past 3years, maintaining an average rating of 4.9 of 5.0 across all sessions.
- Conducting class lectures on 5 core analytics modules per academic session, covering topics including Microsoft Excel for Business Data Analysis, Regression and Predictive Analysis in Python, Statistics for Business Optimization, and Data Science Research Methods

Digital Deployment Data Analyst

October 2021 – September 2023

Philip Morris International PAE

- Led the end-to-end design and implementation of a centralized Power BI infrastructure across the PAE market, integrating data from Oracle, SQL Server, and Salesforce into a unified semantic model using Power Query, DAX, and composite models; deployed over 30 interactive dashboards tracking key digital and commercial KPIs, and improving reporting turnaround time from 3 days to under 12 hours
- Led the analytics team for the deployment of an enterprise-scale E-ordering platform, utilizing advanced SQL queries, CTEs, and window functions to analyze over 400,00 customer interaction records; delivered actionable insights on user behavior that informed UX improvements and recommendation logic, driving a 30% increase in weekly returning users within the first 8 weeks post-launch
- Spearheaded customer insight analytics and product-market fit analysis for the deployment of a voice-enabled IVR e-commerce platform, leveraging SQL-based cohort analysis and retention models to optimize user onboarding and engagement; insights directly contributed to scaling adoption from 3,000 to 25,000 POS within 6 months and earned the 'Above and Beyond Call of Duty' award for exceptional impact on digital deployment

EDUCATION

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| • University of Lincoln, United Kingdom
Data Science and Applied Analytics, MSc
Grade: Distinction | September 2023 – September 2024 |
| • Federal University of Technology, Akure
Mechanical Engineering, B.Eng.
Grade: 4.04 / 5.00 | October 2013 – November 2018 |

CERTIFICATION

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| • Microsoft Azure Data Certification (DP – 900) | March 2024 |
| • Business Analytics Specialization | September 2023 |
| • Microsoft Power BI Data Certification (PL – 300) | August 2022 |
| • Business Statistics and Analysis | May 2022 |
| • Google Data Analysis Professional Certificate | March 2022 |