

Edward Chede

AI Engineer | Data Scientist/Analyst | Power BI Developer | MSc Applied Data Science



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Personal Website: [Edward Chede - About](#)

Profile

I am a passionate Applied Data Science graduate with a strong foundation in AI Engineering, Machine Learning, Software Development, and Business Intelligence. Driven by a commitment to leveraging data and advanced technologies, I aim to solve complex real-world problems and deliver innovative, value-driven solutions.

With hands-on expertise in Natural Language Processing (NLP), Machine Learning, Predictive Analytics, Data Visualization, and BI tools, I bring hands-on expertise in translating complex datasets into actionable insights that support strategic decision-making and enhance operational efficiency. Technically proficient across the end-to-end data science pipeline from data acquisition and wrangling to model development, evaluation, and deployment.

I excel in creating interactive dashboards and using data storytelling techniques to communicate insights effectively to both technical and non-technical stakeholders. My strong communication and stakeholder engagement skills enable me to bridge the gap between data and business needs, ensuring data-driven strategies are aligned with organizational goals.

With a passion for continuous learning and innovation, I am eager to contribute to a forward-thinking team where I can apply my skills to drive positive social and economic impact.

Projects

May 2025

Project: Developed an AI Assistant for Course Planning and Development: An AI Framework for Academic Module Design at Teesside University

I developed a context-aware AI assistant for academic planning at Teesside University where I fine-tuned a large language model (LLMs) with data scraped from the university's portal, and integrated a hybrid RAG pipeline to enhance accuracy, relevance, and alignment with academic standards, and incorporated an Agentic decision-making layer. The project addressed the limitations of generic AI tools by creating a context-aware system tailored to the university's institutional framework

Dec 2024

Project: The impact of Transportation Accessibility on Patients Attendance Rate for Hospital Appointments: A Machine Learning Approach for Analyzing Cancellations and no-shows

This project was conducted for Redcar and Cleveland Voluntary Development Agency. it leveraged machine learning to analyze the impact of transportation accessibility on patients' attendance rate for hospital appointment. The project focused on the residence of Redcar and Cleveland community and proposes to improve patients access to healthcare and mitigate the high cost associated with missed appointment for hospitals

May 2024

Project: Implemented Machine Learning to Optimize Targeted Online Marketing Strategies in Tourism

This work investigated the application of machine learning algorithms in optimizing targeted marketing strategies for an online tourism website. The work aimed to enhance customer engagement and increase sales through precise advertisement delivery.

Work Experience

Job Title: Community Research Intern (Advanced Practice),

Organisation: Redcar & Cleveland Voluntary Development Agency (RCVDA)

Duration: Sep 20th to Dec 13th, 2024

Key Responsibilities and Achievements:

- I conducted a project in collaboration with the RCVDA, where I applied machine learning techniques to analyse the Impact of Transportation Accessibility on Patients Attendance Rate for Hospital Appointments. The work provided insights to the rate of appointment cancellation and no-shows resulting from accessibility challenges for the resident of Redcar and Cleveland. The understanding was aimed to provide a foundation to plan intervention to improve patients access to care and mitigate the consequent cost of missed appointments to hospitals

Job Title: Business Intelligence (NHS Foundation Trust Work Experience

Placement), Organisation: University Hospital of North Tees

Duration: Jul 1st to 5th, 2024

Key Responsibilities and Achievements:

- Gained insight into the operations of the Business Intelligence Department by working alongside various teams.
- Observed and participated in the process of data generation, processing, and utilization for strategic decision-making within the NHS.
- Utilized different applications for data processing, storage, and visualization, including YellowFin, Access Database, and Power Query.
- Leveraged YellowFin's SQL interface for data retrieval from the database.

Job Title: Student Engagement Assistant (Part Time)

Organisation: Teesside University, Middlesbrough

Duration: May 2024 to Jul 2025

Key Responsibilities and Achievements:

- Contribute to continuous service improvement within the Student Life and Library services.
- Co-create resources and services to ensure a student-centric approach and partnerships of expertise
- Provide proactive peer support, guiding users through the range of on campus and online SLS offer, including active support of digital skills and capability
- Contribute to the enhancement of student communities of practice and facilitation of social connections.
- Provide roving support across all SLS locations

Job Title: Customer Assistant,

Company: Wm Morrison Supermarkets Ltd, Middlesbrough (Part-time).

Duration: Dec 2023 to Present

Key Responsibilities and Achievements:

- Delivered exceptional customer service by welcoming and assisting customers with inquiries, managing stocks, monitoring product expiration dates and maintaining store organization.
- Attended to special requests and orders, addressing customer complaints with patience and professionalism, and ensuring compliance with the sale of regulated product.
- Emphasized creating a positive shopping experience for customers while maintaining store operations and regulatory compliance.

Job Title: Team Member, Data Warehouse & Analytics

Company: United Bank for Africa plc

Duration: Jun 2018 – Sep 2023

Key Responsibilities and Achievements:

- Developed, automated, and maintained regulatory reports in compliance with internal and external reporting standards across the entire bank.
- Initiated and implemented process improvement initiatives to enhance the bank's business intelligence and reporting framework.
- Automated key processes to reduce manual interventions, improve data accuracy, and meet reporting deadlines.
- Uploaded and managed POS and prepaid transaction data on a weekly and monthly basis, ensuring timely availability for analysis.
- Built and maintained interactive data analysis dashboards to provide insights into business performance, customer behavior, and operational efficiency.
- Provided support for critical financial and operational period-end processes including end-of-day, month-end, and year-end reporting cycles.
- Managed and enhanced performance management dashboards, including performance scorecards, ATM profitability tracking, deposit volume monitoring, and e-product enrollment analytics.
- Resolved reporting issues and responded to custom report requests logged via the bank's internal portals.
- Supported and improved performance appraisal systems across the bank's portal platform to ensure alignment with HR and business objectives.
- Provided general technical and analytical support for the bank's aptitude testing platform.
- Delivered executive-level Power BI dashboards to support management decision-making and strategic planning.
- Collaborated in the integration of enterprise data systems to enhance the bank-wide availability and usability of financial information.
- Performed other duties as assigned by the team lead, including cross-functional collaborations and ad-hoc analytics support.

Job Title: Customer Experience & Digital Banking Support:

Company: United Bank for Africa plc

Duration: June 2013 to May 2018

Key Responsibilities and Achievements:

- Consistently delivered exceptional customer service by ensuring a positive and seamless customer experience across all touchpoints.
- Took proactive steps to delight customers, resolving issues promptly and exceeding service expectations.
- Facilitated efficient customer onboarding processes, ensuring accurate documentation and a smooth transition into the bank's ecosystem.
- Promptly escalated customer complaints to the appropriate units for swift resolution, minimizing delays and enhancing customer satisfaction.
- Promoted and enrolled customers on the bank's digital channels, including mobile and internet banking platforms, contributing to increased adoption of e-banking products.
- Served as a trusted point of contact for customers, balancing empathy with efficiency to ensure effective service delivery and digital engagement.

Education

MSc, Applied Data Science

Teesside University, Middlesbrough — Jun 2025

Relevant module: Software development with Python, Predictive modelling using machine learning algorithms (Python and R), AI Ethics and applications, Interactive Data visualization using JavaScript, Bigdata and Business Intelligence using Power Bi

Cloud Web Development (Fundamentals)

HyperionDev, United Kingdom — Jan 2025

Relevant module: HTML, CSS, JavaScript, Node JS, React, Express, MongoDB and Authentication with JWT

Data Science Bootcamp

HyperionDev, United Kingdom — Mar 2024

Relevant module: Python Programming Language, Object-Oriented programming (OOP), Data Analytics and Visualization, Machine learning, Natural Language Processing, and Source Control using Git.

BSc, Biochemistry.

Tansian University, Umunya — Jul 2016

References: To be availed on request