

Steven Olufowobi

Health Data Scientist — NHS EPR & Clinical Systems Specialist

📍 Cornwall, United Kingdom 📞 +44 7308 752529 ✉️ toluwase@outlook.com **in** [linkedin.com/in/steven-olufowobi](https://www.linkedin.com/in/steven-olufowobi)

Professional Summary

MSc-qualified Health Data Scientist with hands-on experience in NHS clinical environments and large-scale EPR system (Oracle Cerner) implementation. Expertly leverages Python (Pandas, Scikit-learn), SQL, and NLP to analyze complex clinical data, model patient pathways, and drive measurable improvements in service delivery and patient safety. Translates clinical requirements into technical solutions, bridging the gap between frontline staff and data-driven strategy. Proven ability to deliver end-to-end data projects, from ETL pipeline development to generating actionable insights that enhance healthcare outcomes.

Core Competencies & Technical Skills

- **Data Science & Analytics:** Python (Pandas, Scikit-learn, NumPy), R, SQL, Natural Language Processing (NLP), Statistical Modelling, Machine Learning, ETL Processes, Data Visualisation (Tableau), Data Wrangling & Cleansing, Git
- **Healthcare Systems & Standards:** EPR/EHR (Oracle Cerner eCare, PAS, MAXIMS), Interoperability (HL7, FHIR), Clinical Coding & Terminology (SNOMED CT, ICD-10), Data Security & Governance (GDPR, NHS Data Protection Act)
- **Project & Service Management:** ITIL v4 Foundation, Agile Principles, PRINCE2 Fundamentals, Change Management, Stakeholder Engagement, Root Cause Analysis, Service Improvement, Incident Management (ServiceNow)

Key Health Data Science Projects

Comparative Phenotypic Analysis of Pancreatic Carcinoma using NLP

MSc Dissertation — University of Birmingham — 2023

- **Objective:** To engineer a data-driven solution to identify, extract, and contrast descriptions of pancreatic cancer across highly disparate data sources (unstructured clinical notes, academic literature, and public social media) to uncover novel, patient-centric insights.
- **Tech Stack:** Python (Pandas, NumPy, Scikit-learn), Natural Language Processing (Koment library), Jupyter Notebooks, MIMIC-IV, PubMed API.
- **Actions & Achievements:**
 - Designed and built a robust ETL pipeline to ingest, parse, and standardize over 50MB of unstructured text data from 10,000+ PubMed abstracts, MIMIC-IV clinical notes, and targeted social media forums.
 - Applied advanced NLP techniques, including named-entity recognition, to extract and classify key entities such as cancer phenotypes, symptoms, genetic markers, and treatments.
 - Developed and validated a comparative model that quantified differences in language and focus between data sources, revealing a 15% higher prevalence of patient-reported quality-of-life indicators in social media data compared to formal clinical notes.

Professional Experience

Health Data Analyst / EPR Specialist — Royal Cornwall Hospital Trust, NHS

March 2024 – Present — Cornwall, UK

- Reduced medication reconciliation incidents by 25% within six months by conducting root cause analysis of 1,000+ incident tickets in ServiceNow, identifying and resolving a critical workflow flaw in the Oracle Cerner system.
- Ensured 100% service continuity during a high-risk, trust-wide EPR go-live by developing and managing a real-time issue tracking dashboard in Tableau, enabling a 30% faster allocation of specialist support to critical clinical areas.

- Improved clinical data quality by designing and delivering a targeted training program on the Oracle Cerner eCare system to 200+ clinical staff, resulting in a 40% reduction in post-training support requests for data entry errors.
- Streamlined the patient discharge process by analyzing patient flow data with SQL, identifying bottlenecks, and collaborating with clinical leads to re-engineer the workflow, contributing to a project aimed at reducing average length of stay.

Business Intelligence Analyst — Niger Delta Power Holding Company

February 2021 – February 2022 — Nigeria

- Generated N60,000,000 (~£50,000) in annual cost savings by implementing a data-driven vendor management process, using SQL to analyze procurement data and identify optimization opportunities.
- Developed and deployed automated financial quality control frameworks using Python and SQL, eliminating 100% of manual data entry errors in key reporting streams and improving financial reporting accuracy.
- Enabled data-driven executive decision-making by creating a suite of interactive operational KPI dashboards in Tableau, consolidating disparate data sources into a unified business intelligence platform.

Education

MSc in Health Data Science (Merit) — University of Birmingham

2022 – 2023 — Birmingham, UK

- **Relevant Coursework:** Machine Learning, NLP, Health Informatics, Multimodal Data Analysis

BSc in Management Information Systems (2:1) — American University of Nigeria

2016 – 2020 — Nigeria

- **Relevant Coursework:** Systems Modeling, Data Analytics, IT Project Management, Strategic IT Planning

Certifications

- ITIL® v4 Foundation (2024)
- PRINCE2® Foundation (2024)
- Certified in NHS Clinical Systems and Digital Standards (PAS, MAXIMS, GALAXY, eCare)