ZARA SARI

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PROFILE

Data Analyst with a strong statistical background, experienced in government, healthcare, and research. Skilled in managing large, complex datasets and applying rigorous statistical methods to produce reliable insights, dashboards, and decision-ready outputs for technical and non-technical audiences.

TECHNICAL SKILLS

Programming: R, Python, SQL, Power BI, Qlik Sense, SPSS, QGIS

Methods: Statistical Modelling, Data Visualisation, Machine Learning, Big Data

Industry Experience: Healthcare, Government, Business Analytics, Environmental

EMPLOYMENT

Statistician   Mar – May 2025

Department for Environment, Food and Rural Affairs (DEFRA)

- Led pay equity analysis across protected characteristics (gender, ethnicity, age, etc.)
- Delivered insights through dashboards supporting fairness and policy decision-making

Statistician   Feb – Mar 2025

Office for National Statistics (ONS)

- Developed admin-based population estimates from large linked datasets
- Built reproducible R/Python workflows for complex demographic modelling

Environmental Statistician   Nov 2023 – Aug 2024

Map Impact

- Conducted geospatial and remote sensing analysis using QGIS and Python on satellite-derived environmental datasets (e.g. NDVI, NDWI, LAI)
- Correlation analysis explore links between temperature and algal bloom activity
- Cleaned and aggregated hex-grid habitat data across local authority areas

Data Science Project Lead   Jan 2018 – Jan 2023

DataKind UK and Sobus

- Led a team of Data Scientists to deliver project for Sobus (mental health charity)
- Provided actionable insights using charity and ONS data

Statistician - Reporting Analyst   May 2021 – Jul 2022

UK Health Security Agency (UKHSA)

- Automated weekly COVID-19 statistical reports for NHS Test and Trace (England)
- Queried large NHS datasets with SQL; built R pipelines for surveillance

Statistician/ Data Scientist   Jan – May 2021
Freshminds

- Contract role for a digital education and course provider company (confidential)
- Revised product pricing using statistical methods to assist the sales department

Analyst Statistician   Sep – Dec 2020
OBH (Outcomes Based Healthcare)

- Extracted, cleansed and analysed data from electronic health records (EHRs)
- Produced visual representation of NHSE - NHS Digital data and EHRs
- Used modelling and forecasting tools to predict mortality risk of COVID-19

Senior Data Analyst   Aug 2019 – Feb 2020
Domestic and General

- Built Power BI dashboards and applied statistical methods to customer churn data

Analyst Statistician   Mar 2014 – Apr 2019
Thatcham Research

- Published paper on a large project which proved cars with Autonomous Emergency Braking are safer by modelling motor insurance claims (in SPSS)
- Created dashboards in Qlik Sense using ONS monthly data to monitor industry safety trends
- Analysed, standardised and manipulated large databases, providing insight that solves real world problems and influences decisions (Query data via SQL).
- Communicated complex data insights effectively to non-technical audiences through visually appealing PowerPoint presentation

EDUCATION

Team Leadership Certificate   2018
Newbury College, Distance Learning Course

MBA International   2012 – 2013
Anglia Ruskin University, London campus

MSc Statistics with Medical Applications   2010 – 2011
University of Sheffield

- Dissertation: Developed and compared statistical risk-prediction models for lung cancer using clinical datasets, covering data preparation, feature selection, survival analysis, and AUC-based performance evaluation for risk stratification.

BSc (Hons) Actuarial Science   2003 – 2006
University of Kent