

Adam Urquhart

An accomplished data analyst with a versatile skill set and a deep dedication to creating data-driven insights to inform strategic decision-making. I bring expertise in various data analytics tools and a proven track record of leadership and problem-solving. Thriving in fast-paced environments, I have a strong bias for action and a commitment to delivering results.

EXPERIENCE

DATA MANAGER, NI WATER, BELFAST, NORTHERN IRELAND

OCTOBER 2022 - ONGOING

Machine Learning (Python, sklearn, keras, tensorflow, matplotlib, seaborn, probability, statistics)

- Created forecasting model with 98% accuracy to predict water demand across NI with a hybrid multiple regression and XGBoosting model.
- Built image recognition software to estimate caravan site usage from satellite imagery. Enabled the development of more accurate water leakage estimations in these areas.

ETL/Data Pipelines (Python, pandas, Microsoft Azure API, SQL, ETL, HTML/CSS)

- Streamlined data retrieval and storage processes by implementing automated SQL querying and file management systems with python. Reducing manual weekly workload from 5 hours to 5 minutes.
- Developed a comprehensive ETL pipeline with pandas, automating weekly reporting emails designed with HTML/CSS. Eliminating manual data errors and improving company-wide confidence with and access to data.
- Orchestrated automated Power BI refresh system leveraging the Microsoft Azure API. Coordinating Power BI dataset updates with internal data source updates.

BI/Data-driven Decision Making (Power BI, Management, Data Analysis Expressions (DAX), SQL, Operations)

- Led weekly stakeholder meetings to understand data requirements and coordinate operations management of data-driven action plans. I drove a 15% leakage reduction across NI over two months.
- Spearheaded development of new KPIs directly leading to the identification of a key data extraction issue causing widespread inaccuracies in water leakage calculations.
- Designed and implemented a new suite of Power BI dashboards enhanced with complex DAX measures to build efficient data visualisations.
- Leveraged intricate SQL queries to reveal new insights in leakage calculations, facilitating decision making tailored to a more granular level than previously possible.

LEVEL 5 AREA MANAGER, AMAZON LOGISTICS, LONDON, ENGLAND

MAY 2021 – SEPT 2022

Data Analysis (Python, SQL, M language, DAX, Management)

- Developed and maintained Power BI dashboards across all logistic processes within last mile delivery operations. This structure facilitated precise performance management and drove the station's ascent from 379th to 182nd in the global rankings, its best performance to date.
- These dashboards were further enhanced through optimisation of SQL queries feeding, data transformation with power query/M and complex logic implemented through use of DAX expressions.

Stakeholder Management (Statistics, Risk Assessment, Project Management)

- Restructured support mechanism for drivers in central London optimising route planning efficiency and enhancing driver experience and safety.
- Created a baseline KPI for performance and used statistical t-testing to ensure performance improvements were statistically significant.
- After aligning stakeholders, conducting risk assessments, and gaining support from drivers' managers, I achieved a £17,000 per week saving (£884,000 pa) due to improved route efficiency with no negative impact on delivery performance. Additionally, this change received positive feedback from our drivers

on the restructuring.

Delivering Results (Excel, VBA, Automation, Python)

- Led the largest UK region where I was responsible for 9,000 employees. Through outlier analysis and data-driven decision making, I drove the East region to number 1 in the UK overall.
- 4 of 5 KPIs increased to 1st place in the UK all achieving the highest performance recorded in the country and 1 of 5 to 2nd place in the UK.
- Created best practices and automated reporting tools with VBA and python for these metrics, now utilised as standard operating procedure across all Amazon Logistics stations in Europe.

Hiring and Development

- Conducted 30+ candidate interviews across diverse roles at Amazon, while also facilitating the onboarding of over 60 third-party businesses to Amazon Logistics within a 10-month period.

Training Material

- Personally developed driver onboarding, manager training, and operations management materials, along with standard procedures now used for training across Amazon logistics in Europe.

ADDITIONAL WORK HISTORY

LEVEL 4 SHIFT MANAGER, AMAZON LOGISTICS, LUTON, ENGLAND

JULY 2020 – APRIL 2021

SUPERVISOR, VERNON ARMS BAR, DURHAM, ENGLAND

JUNE 2018 – JUNE 2019

EDUCATION

2:1 NATURAL SCIENCES, DURHAM UNIVERSITY

- **Dissertation: 1st (74%)** - Discussing the role of the MAGE-A family of genes in cancer and their potential use in diagnosis, prognosis and immunotherapy.
- **Final Year Modules** - Bioactive Chemistry 3 (Including Organic Chemistry); Stress and Responses to the Environment; Literature Review; Biochemistry and Biotechnology; Contemporary Issues in the Biosciences; Genomics.

GENETICS RESEARCH INTERNSHIP, CORNELL UNIVERSITY

- Designed and completed a project utilising modern genetic engineering techniques to create yeast cells that fluoresce certain colours under specified conditions. These cells have been cloned, frozen, and continue to be utilised as a genetic analysis tool in meiosis research.

A-LEVELS/GCSE, CARRICKFERGUS GRAMMAR SCHOOL

- A-levels: Biology A* Mathematics A* Chemistry A Physics A GCSE: 4 A*s 3 As 2 Bs (including mathematics and English)

ADDITIONAL SKILLS

- Tableau, Web-scraping, Automation, ETL/ELT, Google Cloud API, Machine Learning (sklearn, tensorflow), Geospatial Analysis (geopandas, GIS), Data Visualisation (matplotlib, seaborn, Looker), Bayesian Inference, Probability, Statistics.

INTERPERSONAL

- Skilled in building relationships with diverse groups in both social and professional settings. At Amazon I led the onboarding process for new managers and business owners to foster team integration and success, while promoting diversity, equity, and inclusion.
- I always keenly participate in team sports, achieving honours for sportsmanship and endeavour in rugby during high school, and voted as captain of the College 1st XV rugby team in university.