Arthur Hilton

Data Analyst

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GitHub Portfolio

Passionate about transforming raw data into compelling narratives and actionable insights. Drawing on my diverse, international experience, I cut across cultural barriers to build rapport and deliver value.

TECHNOLOGIES

Tableau • PowerBI • SQL • Python (Pandas, Numpy, Sklearn) • RStudio (Tidyverse, ggplot2, moments) • Excel (Pivot Tables, Macros, VlookUp)

SKILLS

Leveraging Structured Thinking Frameworks • Formulating a Problem Statement • Communicating Insights • Data Cleaning & Wrangling • Creating Visualisations • Regression Analysis • Cluster Modelling • AB Testing • Sentiment Analysis

PROFESSIONAL EXPERIENCE

Bank of England, London, UK   **March 2024 - April 2024**

Data Analyst

In consultation with Data Scientists at the Bank of England, I led a project examining the sentiments expressed in speeches issued by the bank. Sentiment correlations with key economic indicators and market trends were explored, ultimately demonstrating how sentiment is used as a means of soft influence in order to avoid market shock during an economic crisis.

Achievements:

- Led a team of six people, working across four time zones.
- Guided the project through an initial consultation and two presentations.
- Garnered excellent stakeholder feedback.

London School of Economics, London, UK   **August 2023 - April 2024**

Data Analyst, Data Analytics Career Accelerator

Acquired the skills and mindset of a data analyst. Applied structured thinking to distil business problems, interrogate data, uncover insights, and communicate them in an intuitive and relatable manner. Presented findings and insights to business stakeholders, persuading them to buy into my recommendations.

Achievements:

- Leveraged Excel and SQL to conduct an exploratory analysis of customer demographics, purchasing behaviour and the effect of advertisements. Designed and presented interactive Tableau dashboards, built to help the business facilitate data driven decision making. Presented functionality and communicated key insights.
- Conducted a diagnostic analysis on resource utilisation in the National Health Service. Utilised Python to examine patient appointment data and produce relatable visualisations. Presented findings to stakeholders, providing insight into how better communicate with the public, recommendations on strategies to reduce waste and arguing for the need to expand capacity.
- Analysed customer data of a console game retailer, identifying trends to improve sales performance. Applied linear regression, cluster modelling and sentiment analysis in Python to customer data and reviews, promoting understanding of the customer base and their engagement 'journey'. Leveraged R to build MLR models to predict sales.

ECA International, London, UK   **September 2018 - March 2024**

Research Analyst

Produced tax profile reports on a range of countries, tailored towards internationally mobile assignees. Researched tax law and legislation using a variety of sources, ensuring quality and validity. Identified universally applicable annual changes, exercising judgement on relevance and presentation of new information and criteria. Updated and tested back-end code supporting online tools, in line with tax law changes and client specific policy and customisations. Responded to tax queries, clarifying and explaining tax procedure to internal stakeholders. Oversaw work of junior colleagues, signing off their work and aiding their development through feedback.

Achievements:

- Contributed to a vastly improved team performance wherein annual reporting targets were completed a month ahead of schedule.
- Trained and guided junior staff, giving feedback, and providing direction to support their development.
- Signed off junior colleagues' work, taking ownership of the product and accountability for excellence.

International Data Researcher

Engaged in the collection of cost-of-living data, acquired from a range of international locations. Investigated multi-city/country travel, building and executing my itinerary. Evaluated and monitored ongoing threats, particularly during the pandemic. Reported on availability of goods and services, as well as political and social stability, enhancing other teams' understanding of the situation in each country.

Achievements:

- Pro-actively designed and built a data collection app, created to improve the efficiency of the data collection process. Tested the app in the UK, wrote documentation and trained colleagues on its use, and used the product to collect data in a live setting in several European countries.
- Travelled during the pandemic, accounting for changing Covid guidelines and travel requirements.
- Consistently submitted data ahead of schedule.

Cost of Living Analyst

Analysed large volumes of data in an efficient and methodical manner, producing cost-of-living indices. Queried internal databases to build a broader understanding of the qualitative and quantitative changes in a country. Contributed towards internal process management and communicated issues with the Data Team, identifying areas of concern and collection challenges.

Achievements:

- Contributed to five cost-of-living surveys, analysing dozens of cities.
- Led discussions on methodology and analysis approach.

MDSL, Tunbridge Wells, UK   **November 2016 - August 2018**

Market Data Management Analyst

Tracked, reconciled and processed invoices, performed data uploads and maintained inventory, building a detailed understanding of the account. Examined KPIs and performance metrics, curated operational reports and routinely presented these to the client. Responded to client queries, utilising available databases to investigate and extract data, using tools such as SQL and Excel. Raised queries and communicated disputes with data vendors on my client's behalf.

Achievements:

- Onboarded and managed the account of a high value client. Utilised my interpersonal skills to foster and sustain rapport and trust between ourselves and the client.
- Deployed stakeholder management skills to ensure ideal project outcomes.
- Consistently met performance KPIs and communicated these to the client in the form of metrics reports.
- Wrote documentation on data upload processes.

EDUCATION

London School of Economics
August 2023 - April 2024

Data Analytics Career Accelerator (Distinction)

Queen Mary University of London
2013 - 2016

Physics, BSc
Thesis: "Dark Matter in Spheroid Dwarf Galaxies"

INTERESTS & LANGUAGES

- Russian Language (intermediate)
- German Language (conversational)
- World travel, culture and history
- Martial arts, Brazilian Jiu-Jitsu (Blue Belt)
- Reading on psychology