

Ethan Murray

Junior Data Analyst

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Mathematics and Statistics graduate from the University of Edinburgh with strong skills in data analysis, visualisation, and statistical modelling. Completed a **3-month data analytics internship** at a Scottish energy company, where I automated reporting workflows that saved **8 hours per week**. Ranked in the **top 5%** on Kaggle for a retail demand forecasting competition. Eager to turn messy data into clear, actionable insights for business teams.

Experience

Data Analytics Intern, Scottish Power, Glasgow

Jun 2025 – Aug 2025

Joined the business intelligence team for a 12-week summer internship, supporting data analysis across the retail energy division.

- Built **4 automated dashboards** in Power BI tracking customer churn, billing accuracy, and complaint resolution across **3 regional teams**
- Wrote Python scripts to clean and merge datasets from **5 different sources**, processing over **2.3 million rows** of customer data
- Identified a billing error pattern affecting **1,200 accounts**, leading to a correction that recovered **£34,000** in revenue
- Automated a weekly reporting process using Python and pandas, reducing manual work from **10 hours to 2 hours per week**

Maths Tutor (Part-Time), MyTutor, Edinburgh

Jan 2024 – May 2025

Tutored GCSE and A-Level maths students online through the MyTutor platform.

- Tutored **14 students** over **16 months**, delivering **180+ hours** of one-to-one sessions
- Achieved a **4.9/5 average rating** from student and parent feedback
- All **6 A-Level students** achieved their predicted grades or higher in summer 2025 exams

Education

BSc (Hons) Mathematics and Statistics in Mathematics and Statistics, University of Edinburgh, Edinburgh

Sep 2022 – Jul 2025

Graduated with First Class Honours (**75% average**). Honours dissertation on Bayesian methods for time-series anomaly detection in energy consumption data, graded **79%**.

- Relevant modules: Statistical Modelling, Machine Learning, Probability Theory, Linear Algebra, Data Science, Optimisation
- Awarded the **Edinburgh Mathematical Society Prize** for highest-performing undergraduate in applied statistics
- Selected as a peer tutor for **Statistics 1**, supporting **40 first-year students** in weekly drop-in sessions

Skills

Python (pandas, NumPy, scikit-learn, matplotlib) • R • SQL • Power BI • Tableau • Microsoft Excel (Advanced) • Statistical Modelling • Machine Learning Basics • Data Cleaning & Wrangling • Data Visualisation • Git & GitHub • Jupyter Notebooks • Analytical Thinking • Clear Communication

Certifications

Google Data Analytics Professional Certificate, Google

Jun 2024 – Sep 2024

Microsoft Power BI Data Analyst Associate (PL-300), Microsoft

May 2025 – May 2025

Languages

English - Native • German - Intermediate (B1)

Projects

Kaggle Competition - Retail Demand Forecasting

Mar 2025 – Apr 2025

Competed in a Kaggle machine learning competition to predict weekly sales for a retail chain across **45 stores**.

- Built an XGBoost model achieving an RMSE of **1,420**, placing in the **top 5% (rank 87 out of 1,800 teams)**
- Engineered **24 features** from raw data including holiday indicators, rolling averages, and store-level demographics
- Published a detailed walkthrough notebook that received **140 upvotes** on the Kaggle platform

Edinburgh Bike Share Data Visualisation Portfolio

Nov 2024 – Jan 2025

Created an interactive data visualisation project using open data from Edinburgh's cycle hire scheme.

- Analysed **350,000 trip records** from 2023-2024 to identify usage patterns by time, location, and weather conditions
- Built an interactive dashboard using Python (Plotly Dash) with **6 linked charts** and a map view of station activity
- Project featured on the **University of Edinburgh Data Science Society blog** and shared by **Edinburgh Council's cycling team** on Twitter

References

Claire Donaldson

BI Team Lead, Scottish Power, claire.donaldson@scottishpower.com, +44 7700 900 298

Extra Curricular Activity

Vice President - Edinburgh University Data Science Society

Sep 2024 – Jun 2025

Helped run the university's data science society with **180 members**.

- Organised **6 workshops** on topics including SQL, Python for data analysis, and career skills for data roles
- Coordinated a **24-hour datathon** with **65 participants** and **3 industry sponsors** (Skyscanner, FanDuel, Baillie Gifford)

Volunteer - Edinburgh Science Festival

Apr 2024 – Apr 2024

Volunteered at the Edinburgh International Science Festival as a workshop facilitator.

- Ran a "Data Detective" activity for **120 children aged 8-12** over **4 festival days**, teaching basic data literacy through hands-on puzzles
- Received positive feedback from the festival coordinator for "making statistics genuinely fun for kids"