AIDAN O'BRIEN

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Education

University of Bath – MSc Data Science   **September 2020 – September 2021**

- Achieved an average of 81% (distinction).
- Awarded an £8,000 Global Leaders Scholarship for academic excellence and future leadership potential.
- Notable units: Software Technologies (91%), Machine Learning (90%), Statistics (91%)

University of Bath – BSc Economics   **September 2016 – September 2021**

- Graduated in the top 5% of the class with an average of 75% (1st).
- Notable units: Econometrics (80%), Innovation and Entrepreneurship (85%), Corporate Finance (82%)

Experience

Data Scientist – TalkTalk Plc   **June 2022 – Present**

- Forecasted customer churn to significantly aid negotiations of new supplier contracts and help business planning. Recognised by the business for challenging the status quo by improving forecast performance metrics by 63%.
- Developed and deployed an end-to-end machine learning model for next best action recommendations using SQL, Python and Azure Databricks.
- Ensured the quality of analyses conducted by the Insights and Analytics team delivered business value by implementing data quality monitoring.
- Introduced the use of git, code reviews and documentation to improve the ways of working of the Data Science team.

Data Scientist – Office for National Statistics   **March 2022 – June 2022**

- Enhanced existing code base with distributed computation (PySpark and Hadoop) and increased documentation.
- Regularly use SQL to manipulate data and draw insights from large data sets.

Academic and Personal Projects   **September 2020 – Present**

- Developed a timeline dashboard to automatically collect data on relevant papers for researchers. The dashboard generates interactive visualisations to streamline the literature review process. Dashboard is currently used by a group of PhD students working on brain inflammation.
- Coded a variety of machine learnings algorithms, such as logistic regression and random forest, from scratch.
- Created a web application using Python and SQL that allowed users to log in and record traffic. Additional Python scripts queried the database to produce summary statistics, as well as automate data entry.

Master's Thesis   **January 2021 – September 2021**

- Collected and consolidated a data set of over one million records from a wide variety of sources (APIs and relational databases) using Python.
- Derived insights using statistical testing (Stata) and custom data visualisations (Tableau).
- Conducted experimentation with a variety of natural language processing and dimensionality reduction techniques to generate embeddings for visualisation of academic papers.
- Effectively collaborated with the School of Management, demonstrating excellent communication skills by presenting complex machine learning techniques to a non-technical audience.

Investment and Client Services Administrator – Novia Financial Plc   **June 2018 – June 2019**

- Adapted payment procedures to improve efficiency and reduce human errors by 10% using Excel macros.
- Independently managed my own administrative activities whilst collaborating with multiple teams.
- Promptly and accurately dealt with contractual reporting on client cash and asset accounts.