

# AIDAN O'BRIEN

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## Education

### University of Bath – MSc Data Science 2020-2021

- Taught module average: 84% (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 (Hons) Economics with Industrial Placement 2016-2020

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

## Experience

### Master's Thesis – Start-ups: Towards an Understanding of Their Role in Science Jan-Aug 2021

- Extracted and analysed a custom-made 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 tailored data visualisations (Tableau).
- Conducted experimentation with a variety of NLP techniques to generate embeddings for academic papers.

### Academic and Personal Projects 2020-2021

- Analysed vehicle traffic data to forecast electric vehicle electricity consumption using Python. Communicated actionable insights and recommendations through reports and presentations.
- 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.
- Developed a timeline dashboard to automatically collect data on relevant papers for researchers. The dashboard generates interactive visualisations to streamline the literature review process.

### Datathon - Dementias Platform UK March 2021

- Cleaned the English Longitudinal Study of Ageing data set to develop a prediction model for the onset of Dementia with an accuracy of 62%.
- Demonstrated strong presentation skills to convey the opportunities and challenges associated with applying machine learning techniques to health care data.

### Investment and Client Services Administrator - Novia Financial Plc 2018-2019

- Adapted payment procedures to improve efficiency and reduce human errors by 10% using Excel macros.
- Independently managed administrative activities whilst communicating on a regular basis with teams.
- Promptly and accurately dealt with contractual reporting on client cash and asset accounts.
- Interpreted and handled client requirements across multiple business areas under time pressure.

## Technical Skills

**Languages** Python (1 year), SQL (< 1 year)

**Libraries/ Software** Tableau, Excel, Scikit-Learn, NumPy, Pandas, Plotly, TensorFlow, Keras, Stata