

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% (1st).
- 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

- Collected and cleaned 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 NLP techniques to generate embeddings for academic papers.
- Utilised dimensionality reduction to explore embeddings in a two-dimensional semantic space.

Academic and Personal Projects

2020-2021

- Coded machine learning algorithms, such as logistic regression, random forest, and DQN, from scratch.
- Produced a streamlined data collection form on Notion to track student activities. Then, produced a clear infographic to compare student sleeping habits to data from the American Time Use Survey.
- Designed and carried out an experiment to assess the external validity of student participants in corruption research. Analysed experimental results using ordered probit regressions to establish causality.

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 my own administrative activities whilst collaborating with multiple teams.
- Interpreted and handled client requirements across multiple business areas under time pressure.

Technical Skills

Languages

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

Libraries/ Software

Scikit-Learn, NumPy, Pandas, TensorFlow, Keras, PyTorch, Stata, MS Office Suite, Tableau

Statistical Methods

Hypothesis Testing, Causal Inference, Bayesian Inference