Thomas **Cotter**, Computer Science with AI (MSci)

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Obtained a first in Computer Science with Artificial Intelligence MSci at the University of Nottingham, accomplishing this with a strong work ethic and focus on high quality outcomes. Experiences gained in multiple aspects of technology delivery, spanning requirements analysis, front- and back-end development and data science. Proven ability to work effectively in teams, easily building rapport with colleagues, enabling the collective delivery of software for superior user experiences. Driven by curiosity and passion to learn relevant technologies and tools that can deliver solutions to real problems.

PROFESSIONAL EXPERIENCE

Luxoft/DXC | Data Scientist   09 2023 - Present

- Working on multiple generative AI projects, including internal chatbots and building structured data from insurance policy documents.
- Sharing knowledge and best practices with colleagues and the public, including brown-bag sessions and writing articles for Luxoft on generative AI.

Luxoft/DXC | Data Scientist Intern   06 2022 - 09 2022

- Together with colleagues, built a insurance fraud detection PoC using Dataiku, Snowflake, Appian and Tom Sawyer.
- Produced two completely synthetic datasets, one for training models to detect insurance fraud in Vehicle Accident claims, and the other to detect fraud in instant payments using ISO20022 messages
- Delivered a Python solution to automatically create and populate tables in Snowflake with synthetic data.
- Built CI Pipelines using Jenkins to automate testing and documentation.

Intelligent Plant | Software Developer Intern   09 2020 - 05 2021

- Developed a C# & ReactJS application for the Industrial App Store of a commercial company
- Leveraged APIs to obtain real-time and historical IoT datasets from various machinery used by oil-rigs.
- Enabled analysis of usage and energy consumption data to provide an aggregated view across linked components.
- Implemented machine learning models to predict overall CO_2 emission levels.

Deutsche Bank | IT Department Work Experience   06 2018 - 06 2018

- Delivered a Python-based solution that successfully predicted client defaults on business loans, based on historical data and trends.
- Produced a research paper on how Artificial Intelligence using large IoT datasets could improve future 'smart-cities', including transport effectiveness, energy utilisation and leisure facilities.

Marks & Spencer | IT Department Work Experience   06 2016 - 06 2016

- Collaborated to improve a business plan assessing the benefit of merging product categories.
- Gained an understanding of how a retail business runs, including the variety of technology that supports that.

EDUCATION

University of Nottingham | Computer Science with AI MSci   09 2019 - 06 2023

- 1st Year Performance: 85% (1:1)
- 2nd Year Performance: 71% (1:1)
- Key Modules: Software Engineering Group Project (79%), Algorithms Correctness and Efficiency (79%), AI Methods (68%)
- 3rd Year Performance: 76% (1:1)
- Key Modules: Individual Dissertation (77%), Machine Learning (74%), Computer Security (78%)
- 4th Year Performance: 74% (1:1)
- Key Modules: Linear & Discrete Optimisation (75%), Big Data Learning and Technologies (72%), Data Science with Machine Learning (72%)
- Degree Classification: First Class Honours

Teddington School Sixth Form | A Levels   09 2017 - 07 2019

- A Levels - Maths, Physics, Computing (A*AA)

Teddington School | GCSEs   09 2012 - 07 2017

- 10 GCSE's - all grade B and above - including 9 in Mathematics and 6 in English.