Ellie Birbeck

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Education____

University of Bristol

M.Eng Computer Science

Sep 2013 - Jul 2017

- First Class Honours (~4.0 GPA)
- · Won the Bloomberg Award for 'Best Final Year Project in Machine Learning'
- · Third year spent studying abroad at the University of Oregon

Experience____

Technical Writer

Freelance | London

Nov 2017 - present

- · Clients include Digital Ocean and Hyperion Development
- Creating end-to-end technical tutorials mostly focused on artificial intelligence topics (machine learning, deep learning, model deployment) - samples at elliebirbeck.com/writing

Software Engineer

Mi Águila | Bogotá

Jul 2017 - Sep 2017

- Built a machine learning system to predict driver demand for a transportation start-up
- · Developed an interactive heat map interface for visualising predictions
- · Created a matching algorithm to suggest high-demand locations to drivers in real-time
- · Automated a business intelligence reporting process to save 1 hour of company time a day

Workshop Instructor

Digimakers | Bristol

Sep 2014 - Jun 2017

- · Delivered hands-on programming and robotics workshops to children at city-wide events
- Previously worked promoting the organisation through marketing events, engaging with local news outlets, and growing social media channels by 74%

Projects_____

more at elliebirbeck.com/projects

Tweets to Trades

M.Eng Thesis

- Developed a novel approach to the sentiment classification of stock-related tweets, and an automated trading system using predictions on new tweets, returning a 5% monthly profit
- · Submitted the results of this research to the 27th IJCAI 2018 (paper currently under review)

Rate My Plate

Boeing Hackathon

- Built a Twitter bot that calculates the carbon footprint of a meal from a tweeted photo
- Awarded the prize for 'Best Implemented Prototype' out of 18 teams

Deep Learning

deeplearning.ai

- · Completed Andrew Ng's 5-course 'Deep Learning Specialisation'
- Implemented models in Python from scratch and using TensorFlow and Keras to perform object detection, music and language generation, face recognition, machine translation

Achievements _____

- · Started an online business producing and selling film merchandise aged 15, with over 50X return on investment
- Elected as Head Girl at school, which involved managing a team of 16, chairing 3 councils, and public speaking to 1000+ people
- · Gold Award for the UK Senior Maths Challenge 2012 and the UK Junior Maths Challenge 2008 and 2007
- Selected by the Royal Institution of Great Britain for Mathematic Masterclasses for 5 years running (~100 selected per year)