MITCHELL WATTS

Data Scientist

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EXPERIENCE

Data Science Intern
Signal AI

📅 Aug 2018 – Oct 2018   📍 London, UK

- Worked to bring Data Science insight to empower the Marketing team by creating solutions required to process >1 million documents on a laptop.
- Detecting changes in language in the news. Achieved using an aligned word embedding approach to model temporal changes in the vector representation of words.
- Information Retrieval (IR) problem to generate ranked lists of news stories. Achieved by converting Wikipedia human descriptions to boolean queries using TF-IDF weighting methods and ElasticSearch queries.

Assistant to London Programme Director
Educational Programmes Abroad

📅 July 2012 – Jan 2019   📍 London, UK

PROJECTS

- Sentiment Analysis Explainer - `sentiment.cf/` - (available only 11:00-15:00 Mon-Fri GMT). Deployed using AWS.
- Matt Damon/Mark Wahlberg image classifier - `damonnet.ml/` - A toy project using FastAI to classify Mark Wahlberg or Matt Damon. Deployed using AWS.
- Thunderfit for Raman spectroscopy data analysis - Published on PyPi: `pypi.org/project/thunderfit/`.
- More projects and details are available at: `mitchwatts.co.uk/#work`

EDUCATION

Nano-Materials Physics PhD
UCL

📅 Sep 2015 - Dec 2019   📍 London, UK

Publication: Watts, M. C., Production of Phosphorene Nanoribbons, Nature, 568, 216–220 (2019), `doi.org/10.1038/s41586-019-1074-x`

MPhys Physics
UCL

📅 Sep 2011 - May 2015   📍 London, UK

- Average marks: 85%.
- Received one of 31 Dean's list awards in UCL-wide graduation year (>4000 students).

A (As) Levels
Brentwood County High School

📅 Sep 2009 - May 2011   📍 Brentwood, UK

Physics **A***, Maths **A**, Chemistry **A**, (*Biology* **A**, *Further Maths* **C**)

LANGUAGES & PACKAGES

Python   MATLAB   LaTeX   Numpy   Scipy   Pandas   Spacy
Scikit-Learn   PyTorch   FastAI

ABOUT ME

I'm a Physicist with a strong academic record, looking to break into a career in Data Science. I'm passionate about data and analysis, with a particular interest in Machine Learning techniques and NLP specifically. My motivation is demonstrated by having taught myself numerous courses whilst completing a PhD in Nano-Materials, as well as undertaking an internship and completing several small projects.

SELF-TAUGHT COURSES

- Coursera - *Machine Learning*.
- Berkley - *CS61A*.
- Fast.AI - *Fast.AI course V3*.
- Coursera - *DeepLearning.AI (Sequence Models module)*.
- O'Reilly - *Hands-On Machine Learning with Scikit-Learn and TensorFlow*.
- Stanford - *Algorithms: Design and Analysis (partially completed)*.
- MIT/EDX - *Introduction to Probability - The Science of Uncertainty (partially completed)*.

UCLU SOCIETIES

Co-Founder & Treasurer
UCL Brazilian Jiu Jitsu

📅 Nov 2013 – Jun 2015   📍 London, UK

- Co-founded club, requiring extensive paperwork, fund-raising and organisation.
- Founded a volunteering programme within the society.

Head of Events
UCL Muay Thai Society

📅 Apr 2013 – Aug 2014   📍 London, UK

- Organised a new competitive event in 2014 for UCL Varsity series.
- Organised international club tour in 2014, including travel and training provisions.

INTERESTS

Cinema   Football   Running   Cycling
Bouldering   Karate   Muay Thai
Brazilian Jiu Jitsu