FLINN DOLMAN

Machine Learning Researcher & Engineer

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EXPERIENCE

Chief Data Scientist & Co-Founder

Scale FS

 Mar 2019 – Present

- Lead R&D of advanced credit risk modelling, financial crime detection and defined the companies modelling architecture
- Worked directly with large global banks including HSBC to run POCs of our modelling solution within their environment
- Leveraged multiple machine learning techniques including but not limited to: Convolutional Neural Networks, LSTMs and Gradient Boosted Decision Trees.
- Accepted into the prestigious StartUpBootCamp accelerator programme and the FCA's innovation sandbox.

ML Research Lead

Complexiti

 June 2017 – June 2018

- Responsible for creation and implementation of Complexiti's Machine Learning products.
- Lead on construction of WildfireAWARE's Machine Learning model. WildfireAWARE is a multi award winning web app capable of predicting with high accuracy the likelihood of wildfires occurring.
- Work recognised by the UN, Microsoft, Business Finland and others (see: Links)

Data Scientist

AMPP Group

 June 2018 – January 2019

- Authored and Co-Authored two papers concerning both Machine Learning and Cryptography (see: Papers)
- Research and application of utilising Bayesian Networks to predict financial fraud in decentralised graphical networks
- Productionising ML models via AWS/GCP

Equity Derivatives Trading - Offcycle Intern

JP Morgan Chase

- My role was to act as a technical interface between the derivatives research group and the exotics trading desk I was working on.
- Application and integration of Machine Learning into tooling used by the desk for trading functions.
- Research into the application of Bayesian Optimisation in order to replicate volatility of illiquid options from a universe of highly liquid assets.

HONORS & AWARDS

- 🏆 $200k raised from VC funds for startup I co-founded
- 🏆 Multi award winning Machine Learning Web app covered by the UN, Microsoft and others.
- 🏆 Presented Machine Learning research at European Space Agency EO data conference.
- 🏆 Masters degree from UCL in Computational Finance specialising in Machine Learning

EDUCATION

MSc Computational Finance

 University College London

 September 2017 – June 2018

BSc Mathematics

 University of York

★ First Class Honours

 September 2014 – June 2017

SKILLS

Python JavaScript SQL MongoDB Pandas Spark Hadoop Numpy Tensorflow Scikit-learn NLTK AWS Azure

RESEARCH

📄 Research Articles

- Dolman, Flinn (May 2018a). "An Integrated Credit Scoring Approach Using CART And Bayesian Network Modeling". URL: https://flinnd.github.io/papers/CART_Bayes.pdf.
- – (Aug. 2018b). "Methodologies for evaluating credit risk of business data using Machine Learning". URL: https://flinnd.github.io/papers/ML_Methodology.pdf.
- Dolman, Flinn, Arnold Almeida, and Jaime Van Oers (July 2018). "Data Vaults: Methods for storing, verifying and sharing private data". URL: https://flinnd.github.io/papers/Crypto_Data.pdf.

LINKS

- https://www.un.org/press/en/2018/pi2239.doc.htm
- https://news.microsoft.com/fi-fi/2018/09/04/mita-jos-metsapaloja-ei-enaa-syttyisikaan/
- https://www.cs.york.ac.uk/news-events/news/2018/tackling-wildfires-with-data/
- https://until.un.org/news/global-service-preventing-wildfires-wins-main-prize-world-challenge-2018-finals