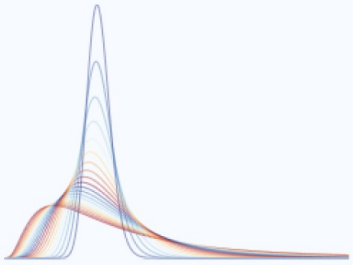
JAMES GAMMERMAN

I'm a data scientist with a Master's degree in Machine Learning and 3 years' professional experience.

Within data science my main interest is in the application of classical and modern machine learning techniques to business data. I am particularly interested in the field of natural language processing. I have also published research in the field of uncertainty estimation in machine learning.

Outside of my career my main hobbies are sports, music and learning languages.



View this CV online with links at jamesgammerman.com/cv

EDUCATION

2018 | 2016

MSc (part-time), Machine Learning

Royal Holloway University — London, UK

- Grade: Distinction
- Selected techniques covered: deep learning, standard classification and regression algorithms, clustering, kernel methods, Bayesian methods, real-time machine learning
- Thesis: Predictive Maintenance with Conformal and Probabilistic Prediction: A Commercial Case Study
- Won award for best thesis

2013 | 2009

MSci, Chemistry

Imperial College — London, UK

- Grade: Upper second (2:1)
- Thesis: Computational chemical physics: heat transfer in ionic liquids
- Won award for best thesis presentation

PROFESSIONAL EXPERIENCE

Current | 2017

Data Scientist

Centrica — London, UK

- Data collection / cleaning
- Exploratory data analysis
- Modelling
- Deployment

2017 | 2013

Business Analyst

ExxonMobil — London, UK

- Provided analytical support for company's gas production projects in Kazakhstan & North Sea, mainly cashflow modelling
- Provided ad hoc analytical support to company's gas traders
- Various other projects e.g. analysing gas market liquidity and investigating price patterns

CONTACT

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LANGUAGE SKILLS

- R
- Python
- SQL
- Bash
- MATLAB
- Javascript
- HTML
- CSS

ACADEMIC PUBLICATIONS, TALKS & TEACHING

2020

Journal article: Multi-level conformal clustering: A distribution-free technique for clustering and anomaly detection[1]

Neurocomputing, Volume 397, 2020, pp. 279-291

- This paper was developed from my MSc thesis project.
- We introduced a novel technique which combines clustering and anomaly detection, and outlined its advantages over classical clutering techniques.

2019

Poster: Conformal Anomaly Detection based on Association Rules[2]

Proceedings of Machine Learning Research, Volume 105, 2019, pp.246-7

- In this commercial application we developed a new data cleaning technique.
- It combines a rule-based machine learning technique called association rule mining with the conformal prediction framework. This allowed us to automatically identify likely errors in Centrica's SAP database which could then be manually corrected.

2018

Talk: Machine Learning: Progress & Prospects[3]

Odessa University, Ukraine

Odessa, Ukraine

- Guest lecture at Data Science meetup

I have recently started publishing research in academic journals in collaboration with my alma mater Royal Holloway University.

I have also started giving talks on various topics in machine learning.

DATA SCIENCE WRITING

2020

#TidyTuesday: Analysing cocktail recipes[4]

https://www.jamesgammerman.com/post/cocktail-recipes-analysis/

- Blah blah blah
- Blah blah blah

2020

#TidyTuesday: Predicting NFL stadium attendances[5]

https://www.jamesgammerman.com/post/predicting-stadium-attendances-with-tidymodels/

- Blah blah 2
- Blah blah blah

I have recently started a website where I make blog posts about topics in data science

LINKS

1: https://www.sciencedirect.com/science/article/abs/pii/S0925231219316169
2: http://proceedings.mlr.press/v105/balinsky19a.html
3: https://www.youtube.com/watch?v=n5iz5GPdO5Y
4: www.jamesgammerman.com
5: https://www.jamesgammerman.com/post/predicting-stadium-attendances-with-tidymodels/