

Matthew Nunes

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Education

University of Warwick

Coventry, U.K.

BSc. (HONS.) MORSE (MATHEMATICS OPERATIONAL RESEARCH STATISTICS AND ECONOMICS)

Oct. 2015 - 2018

- Advanced Statistical modelling - Neural Networks, Convolutional NNs, PCA, SVM, k-means clustering, LASSO and Ridge regression.
- Understanding of Reinforcement learning, Markov Decision Processes, Monte Carlo Techniques and Temporal Difference Learning

St. Paul's School (Barnes)

London, U.K, SW13 9JT

GCSE AND A LEVELS

Aug. 2010 - June 2015

- IGCSE: 7A*s, 4A including Mathematics, English and Triple Science
- AS: 5As Mathematics, Further Mathematics, Chemistry, Physics and Economics
- A2: Mathematics (A*), Further Mathematics (A), Chemistry (A), Physics (A)

Skills

Programming Python, R, LaTeX, MATLAB, SQL (SQLite and Oracle SQL), Bash, C++ (beginner level)

Libraries Python: NumPy, Pandas, Scikit-learn, MLlib, Gluon, PySpark, nltk, R: Keras, ggplot2, dplyr, tidyverse, caret, xgboost

Tools git (version control), Apache - Hadoop, HDFS, MapReduce, Ambari, Hive, Spark, MXNet, Azure - ML Workbench

Cloud AWS - S3, EC2, Azure - CLI, Portal, PowerShell, ML (All of very basic level)

Languages French (conversational), German (basic)

Projects

General Election 2015-17 Data Analysis

Oct - Dec. 2017

- University project alongside 3 other colleagues over 7 week period.
- where we analysed the change in voting between the general elections of 2015 and 2017, and examined if there was any significance of a number of demographic variables and the voting statistics on the EU referendum.
- A concise project plan was created with objectives and potential pitfalls.
- We created a 6-page report of our findings in RMarkdown and a presentation.

Programming for Data Science Assignments

Oct - Dec. 2017

- University module consists of statistical theory behind many data science practices.
- From simple bubblesort, mergesort algorithms, PCA, SVD, k-means clustering to Support Vector Machines and Artificial Neural Networks.
- We completed 3 assignments in pairs implementing the above in R.

Kaggle Toxic comment Classification Challenge

[HTTPS://WWW.KAGGLE.COM/C/JIGSAW-TOXIC-COMMENT-CLASSIFICATION-CHALLENGE](https://www.kaggle.com/c/jigsaw-toxic-comment-classification-challenge)

March 2018

- Tasked to build a model to detect different types of toxicity abusive comments. Kaggle username: Shonez
- I used a variety of NLP word processing such as bagofwords, Word2Vec and GloVe and formed a variety of different models, such as SVM, Naïve Bayes, and a Recurrent Neural Network using both R and Python.
- My result was a blend between multiple models and I came 1241st/4551 participants.

McKinsey Healthcare Analytics 24h Online Hackathon

[HTTPS://DATAHACK.ANALYTICSVIDHYA.COM/CONTEST/MCKINSEY-ANALYTICS-ONLINE-HACKATHON](https://datahack.analyticsvidhya.com/contest/mckinsey-analytics-online-hackathon)

14th April 2018

- Tasked to build a model predicting the likelihood of a patient to have a stroke.
- I used models including Naïve Bayes, Linear Regression, LASSO and a Neural Network in Python and R. (Workings can be found on my github)
- My final model was ridge regression optimised through grid search. My result was 204th/584 entries.

Experience

NHS GP Surgery

London

ADMINISTRATOR

August 2015 & April 2017

- Providing administration assistance for both doctors and patients.
- Full-time during school and university holidays, summing to 3 months total employment.

AXA UK

CAPITAL INTERN

London Office

August 2016

- Based in Capital Modeling team, looking at catastrophe models in P&C risk.
- Looked at the feasibility of web-based tools in analyzing risk exposure on a macro level.
- Insight into other areas: pricing - motor, commercial shops; second line personal and commercial pricing; reserving - travel, both direct and intermediary; risk management - financial, operational and enterprise risk; reinsurance; HR.

Gap360

TEACHING VOLUNTEER

Fort Kochi, Kerala, India

August 2017

- 2 weeks teaching English to 3 — 5 year old children, and 6-8 year olds with learning disabilities.

Interests & Achievements

Music	Violin Grade 8 ABRSM, Piano Grade 8 ABRSM, Violin 1 for University of Warwick Symphony Orchestra
Sport	Hockey GK at Teddington HC and Warwick University 1stXI, BSAC Ocean diver (scuba-diving qualification)
Reading	Andreessen Horowitz (a16z) Blog and Podcasts, Techcrunch and Crunchbase
Other	Freeman of the City of London – Guildsman of the Guild of Mercers Scholars