

Postgraduate training in both machine learning and social science, together with consulting experience in public and private sectors equipped me with a unique skill set for solving business problems, generating data-driven insights, and developing data products.

WORK EXPERIENCE

Senior Data Scientist Decision Technology

10/2014 – Present

London

Consulting company specialising in experimental psychology, cognitive science and statistics

Achievements/Tasks

- Build statistical models from clients' big data to understand customers' behaviours, identify valuable trends and opportunities, and assist product developments.
- Design, execute and evaluate experiments to optimise products, improve customer journey and identify levers to help move key metrics.
- Develop data products such as predictive models, automated pricing system, commercial dashboards and visualisation services to facilitate data-driven decision making.
- Experienced in translating data to recommendations and communicating results to (non)technical stakeholders across different functions.

EDUCATION

MSc Advanced Computing Technologies (Machine Learning)

Birkbeck, University of London

09/2016 – 09/2018

Distinction

Courses

- | | |
|------------------------------------|--------------------------------|
| • Big Data Analytics using R | • Information Security |
| • Data Warehousing and Data Mining | • Machine Learning |
| • Cloud Computing | • Advanced Database Management |

MSc Sociology

University of Oxford

09/2013 – 09/2014

Distinction

Courses

- | | |
|---|--------------------------------|
| • Statistics | • Experimental Social Science |
| • Social Network Analysis | • Research Design |
| • Quantitative Method and Survey Research | • Qualitative Research Methods |

BA Linguistics and Sociology

University of Manchester

09/2011 – 09/2013

First

SKILLS

Machine Learning

Statistical Modelling

Survival Analysis

Regression

Random Forests

Dimension Reduction

Clustering

Time Series Analytics & Forecasting

Natural Language Processing

A/B Testing

Multivariate Testing

Experiment Design

R

R Shiny

Python

TensorFlow

SQL

MongoDB

Hive

Spark

AWS

Docker

Kubernetes

PROJECTS

Data Science blog: databentobox.com

(10/2016 – Present)

- databentobox.com is a blog where I showcase my personal data science projects and share thoughts on statistics and programming.
- Blog articles are frequently re-posted by R-bloggers and KDnuggets and have gained traffic in the data science community.
- Specifically, the recent project Simulating Coronavirus Outbreak with Origin-Destination Matrix and SEIR Model attracted 20k views.

MSc Machine Learning Project: Tackling Toxic Comments Using Convolution and Recurrent Neural Networks (06/2018 – 09/2018)

- Going beyond standard sentiment analysis, the goal of this project is to build an automated tool to identify online toxic comments.
- Neural network based classification models (bidirectional GRU-CNN) with pre-trained word embedding were built.
- The final model achieved state-of-the-art classification results and the MSc project was awarded distinction.

MSc Sociology Thesis: Gender Equity and Women's Fertility Intention in European Countries (06/2014 – 09/2014)

- This thesis provides an empirical test of gendered fertility theory by examining whether low gender equity at home lowers women's fertility intentions in 31 European countries.
- Using a series of multilevel logistic regressions, together with the data from the second and the fifth round of European Social Survey, the MSc thesis generated unique insights and was awarded distinction.

LANGUAGES

English

Native or Bilingual Proficiency

Mandarin Chinese

Native or Bilingual Proficiency