Yihui Fan

Data Scientist | Data Product & Insights

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.

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WORK EXPERIENCE

Senior Data Scientist Decision Technology

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

Distinction

First

Courses

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

MSc Sociology University of Oxford

09/2013 - 09/2014

Courses

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

BA Linguistics and Sociology University of Manchester

09/2011 - 09/2013

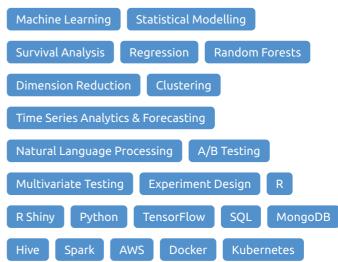
Research Design

LANGUAGES

English

Mandarin Chinese Native or Bilingual Proficiency Native or Bilingual Proficiency

SKILLS



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.