Yihui Fan

Data Scientist | Business Analytics & Consumer Behaviours

Postgraduate training in both machine learning and social science, together with work experience in data science and management consulting equipped me with a unique skill set for delivering data-driven business insights.

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WORK EXPERIENCE

Senior Data Scientist Decision Technology

10/2014 – Present London

Consulting company specialising in understanding and predicting customer behaviours with experimental psychology, cognitive science and statistics

Achievements/Tasks

- Build statistical models from big data sets to identify enablers and blockers for product consideration and predict the behaviours of a diverse group of consumers
- Build multivariate time series models (ARIMA and neural network based) to predict sales and other key metrics accounting for marketing and promotion activities
- Design, execute and analyse randomised control trial experiments to optimise product offerings and improve consumer experience
- Devise data products such as predictive models, automated pricing system and R Shiny apps/dashboards to facilitate data-driven decision making
- Design and test theoretical frameworks to predict the 'new normal' post COVID-19 to help clients with strategic business planning
- Experienced in translating data to actionable insights and 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
- Parallel Computing and Distributed Systems
- Data Security
- Machine Learning
- Advanced Database
 Management
- Data Mining and Warehousing

MSc Sociology University of Oxford

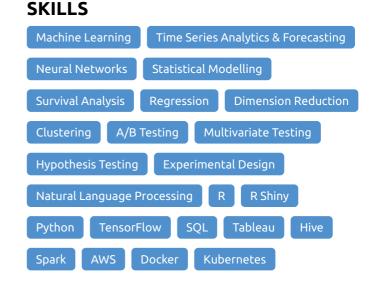
09/2013 - 09/2014

Distinction

Courses

- Statistics
- Social Network Analysis
- Experimental Design
- Quantitative Method and Survey Research

BA Linguistics and Sociology University of Manchester



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