

Thomas Huijskens

+44 (0) 7583681156 | thomas_huijskens@hotmail.com | thuijskens.github.io

PROFESSIONAL EXPERIENCE

QuantumBlack, McKinsey & Co

London, United Kingdom

Principal data scientist

Dec 2016 – Present

- Responsible for discovery, development and delivery of machine learning products for client engagements in an international environment. Engaging with a range of different stakeholders across client organizations, from operations to senior management.
- Leading teams of data scientists and machine learning engineers consisting of QB and/or client colleagues, typically between 3-5 people per client engagement, and 2 engagements at any point in time. Line management of 6 data scientists outside of project work for the last 2,5 years.
- **Selected Engagement Experience:**
 - *Point of care tool for patient risk prediction:* Led a team of 4 data scientists in the development of a machine learning tool for HCPs for prediction of multiple clinical outcomes to facilitate treatment. Tool outperforms current standard of care by ~20%, was validated by >10 KOLs, the methodology has been published at a top healthcare conference and is currently being tested by a leading healthcare organization.
 - *Commercial salesforce transformation:* Built a data science roadmap for the largest commercial salesforce transformation programme that's been running at a top pharmaceutical company. Responsible for the deployment and methodological approach off all data science models and delivered the first wave of models that were part of the roadmap (across 3 therapeutic areas and 5 countries).
 - *Head-to-head treatment effectiveness:* Led a team of 4 data scientists in the deployment of a dashboard generating insight into treatment effectiveness of a key asset for a large pharmaceutical client, that's being used by ~40 users across medical and commercial groups. The methodology combined causal inference techniques (G-estimation and propensity score modelling) with machine learning algorithms to estimate treatment effects.
 - *Lead generation engine for insurance products:* Led a team of 3 data scientists in deploying a lead generation engine for the insurance department of a large financial institution that resulted in ~30% realized improvement in sales conversion rate (+MM\$ in revenue).
 - *Mortgage pricing data product:* Led a team of 5 data scientists and machine learning engineers to build a production-level forecasting and pricing simulation system for the mortgage department of a bank that performed better than the existing model and enabled more granular pricing strategies.
- Tech stack: Python, Spark, R, SQL, AWS, Azure, GCP, Docker.
- Methodologies used: supervised learning, causal inference techniques, frequentist and Bayesian statistics, time series analysis, clustering methods, constrained optimisation.

Tesco PLC

London, United Kingdom

Data scientist

Nov 2015 – Nov 2016

- Expanded proof-of-concept data lake by developing and productionising data ingestion feeds lake using Spark. Data lake was used by over 150 analysts and data scientists within Tesco by time of departure.
- Created two data products: promotion profitability models allowing for the first time a view on profitability of any type of promotion, and customer response models for targeted marketing.
- Tech stack: Python, Scala, Hadoop, Spark, Hive, Oozie, R.

MIcompany B.V.

Amsterdam, The Netherlands

Data analyst

Sep 2013 – Sep 2014

- Supported senior consultants with analyses based on large-scale data sets. My work involved data mining and analysis, visualizing results and statistical modelling using R in the FMCG and insurance industries.

EDUCATION

University of Oxford

Master of Science in Statistics (Distinction)

Oxford, United Kingdom

Graduated October 2015

Delft University of Technology

Bachelor of Science in Applied Mathematics (Distinction)

Delft, The Netherlands

Graduated July 2013

PUBLICATIONS

T.P. Huijskens, M.J. Ruijter, C.W. Oosterlee, *Efficient numerical Fourier methods for coupled forward-backward SDEs*, Journal of Computational and Applied Mathematics 296 (2016): 593-612.

OTHER INFORMATION

Languages: Fluent in Dutch and English.

Citizenship: The Netherlands, United States of America.