

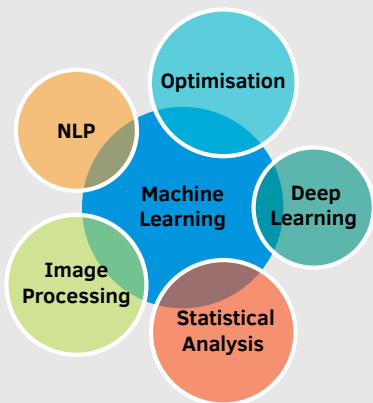
Antoine Debugne, Ph.D.

Data Scientist × Consultant

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Skills

Overview



Frameworks

Machine learning

scikit-learn TensorFlow
PySpark PyMC3

Optimisation

Gurobi
CPLEX

Database

PostgreSQL Hive
SparkSQL MongoDB

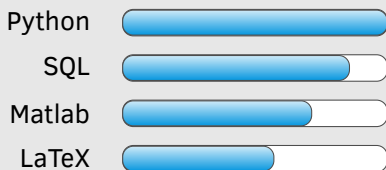
DevOps

git pytest Docker
Airflow Flask Jenkins

Visualisation

matplotlib seaborn
Tableau

Programming



Interests

♟ Board games 🎮 Video games
🧘 Yoga 🕯 Meditation

Experience

2018 - ... Senior Data Scientist The Boston Consulting Group – GAMMA

Mission: implement solutions that creates a lasting competitive advantage for our clients by combining BCG's deep industry expertise with advanced skills in statistics, machine learning and mathematical optimisation.

Co-founder of patented engine *Spend AI*:

- Co-founder of *Spend AI*, an accelerator for zero-base-budgeting projects based on NLP, clustering, and self-correcting 'human in the loop' techniques.
- Responsible for defining the technical solutions, dev. roadmap and human processes that led to the successful scale-up of *Spend AI*.
- *Spend AI* has since been deployed at ten clients over past 18 months, grossing \$10M in revenue, and helping consultants identify savings potential of 12-20% of our clients' SG&A costs (up to \$ 360 M).

Other notable projects:

- Optimised the global supply chain for a manufacturer of medical nutrition products through mathematical optimisation (MIP). Improved scheduling of production unlocked 10M€ of missed sales while avoiding 5M€ of freight costs during playback. Tool is currently used by 50+ planners and has reduced length of planning cycles from 7 to 3 weeks.
- Redefined CRM strategy for luxury fashion retailer by identifying and activating high-value customers through personalised recommendations. Pilot showed a 100% increase in revenue per contacted customer vs current marketing strategy.

Outreach & citizenship activities:

- Regular presenter of AI masterclasses to ExCom members and students
- Actively involved in every stage of recruitment process (interviews, talks, workshops, networking events, hackathons...)

Education

2014 - 2018 Ph.D. in Environmental Fluid Dynamics University of Cambridge

2010 - 2014 MEng in Civil & Environmental Engineering Imperial College London

Finished top of class (first-class honours, 83/100).
Master thesis published in leading peer-reviewed journal.

Projects - Research

2014 - 2018 Ph.D. thesis University of Cambridge

- **Title:** *A study of round, line-like and meandering turbulent fountains* (link)
- **Key outcomes:**
 - Published four research articles in field's leading peer-reviewed journal.
 - Developed theoretical models and novel experimental methods to analyse complex, turbulent flows, significantly improving the accuracy and reliability of predictions as a result.

2020 - ... Oddity The Boston Consulting Group – GAMMA

- Author of 'oddity', a Python package that accelerates the delivery of retail-based use cases (e.g. churn, cross-sell, NBA) by automating feature augmentation. Package has since been incorporated in two flagship products (B2B, TelCo) and deployed on client cases.

Languages

Native (or equiv.)	French, English
Fluent	German, Luxembourgish
Conversational	Spanish