Thomas Boquet

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EDUCATION

HEC MONTRÉAL
Ph.D. Decision Sciences
2014 - 2015
completed coursework

M.Sc. Business Intelligence
Grad. Jan 2014
Thesis grade: A+
Advisors: D. Larocque & R. Legoux

UNIVERSITÉ DE MONTRÉAL
B.Sc. Economics
Grad. Dec 2012
Final project grade: A+

COURSEWORK

GRADUATE
Machine learning for vision
Pattern recognition
Automatic classification
Applied econometrics
Data Mining
GLMM & Survival data analysis
Integer programming
Time series econometrics

UNDERGRADUATE
Econometrics I, II and III
Advanced Econometrics
Econometrics of auctions
Cost benefit analysis
Microeconomics I, II
Financial economics

PROGRAMMING SKILLS
Over 20K lines:
Python • R • SAS • LaTeX • SQL
Familiar:
C++ • Javascript • C • bash shell
Technologies and libraries:
Theano • TensorFlow • Keras • Numpy
Scipy • Spark • Cython • Docker Engine
MongoDB • MapReduce • git • Flask
AWS EC2 • Docker Machine • Celery
Travis • Docker Swarm • Docker Compose

PUBLICATIONS

- Legoux, Renaud, et al. The effect of critical reviews on exhibitors' decisions: Do reviews affect the survival of a movie on screen?. International Journal of Research in Marketing (2015).

PROFILE

R & D | Data Science and machine learning
- Build models on a daily basis with Theano, Tensorflow, Keras
- Contribute on Keras and is official reviewer on the Keras-contrib repository
- Implement and recent papers of machine learning models (Swapout, Phased LSTM, Weight normalization, Dropout in RNNs, etc)

MANAGEMENT | project planning and communication
- Lead the development of an asynchronous prediction system
- Lead 3 data scientists during the buildup of an analytics solution for Siegefall
- Present results using interactive tools (jupyter, impress.js, Flask web apps)

WORK EXPERIENCE

ELEMENT AI | Data Scientist
Feb 2017 – present | Montreal, QC

R2 | Data Scientist
Oct 2015 - Present | Montréal, QC
- Implement and apply machine learning models to anomaly detection problems
- Develop a dockerized light platform for asynchronous models training, reporting and deployment for several users and several machines. The services could assign ressources (GPUs) to specific tasks and save all the results in databases.

GAMELOFT | Data Scientist
Feb 2015 - oct 2015 | Montréal, QC
- Developed a very high level machine learning library (Keras, Sphinx)
- Developed predictive models of churn, monetization and conversion (Keras)
- Built and developed a Lifetime Value model based on users behaviour (Keras)

INTEMA | Analytics developer
Sep 2013 – Aug 2014 | Montréal, QC
- Developed personalized online offers models based on users behavior
- Integrated per user web analytics' metrics to the existing databases and prediction workflow

ACADEMIC RESEARCH

GERAD | Research Associate
May 2014 – May 2015 | Montreal, QC
- Developed Text mining analysis tools on large databases
- Developed web scraping systems
- Benchmarked machine learning models on supervised tasks

HEC MONTREAL | Research assistant - Teaching assistant
Jan 2013 – Feb 2015 | Montreal, QC
- Worked with Pierre-Thomas Léger on bike sharing systems modelisation
- Taught two lessons of the M.Sc. course Database Marketing Analysis and supported students in their final projects
- Taught undergraduate statistics course labs
- Graded the homeworks, personal projects and exams for the M.Sc. course Statistical softwares for data analysis