

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 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 Siegfried
- 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 resources (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