Thomas Rohée
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About

I'm interested in machine learning. I approach it as a tool to optimize automated processes or tedious manual tasks. I'm always looking for new tools and machine learning models in order to successfully deploy models and machine learning pipelines useful to society.

Experience

AI Developer at Logibec
October 2017 – Today

- Responsible for the development of a machine learning pipeline supporting a new application predicting the risk of patients' readmission before being discharged from the hospital. The application technology stack involved Apache Spark with Scala, Postgresql, Python, Flask, and Scikit-learn.

- Involved in grant applications and coordination between Logibec, clients and academic researchers in order to get federal and provincial public funding for new machine learning projects relevant for healthcare organizations.

- Supervision of machine learning interns from Mila who were responsible for analyzing data and developing new models relevant for the clients.

- Production of internal training material on fundamentals of AI.

Machine learning specialist at Datacratic/iPerceptions
June 2015 – September 2017

- Responsible for online real-time bidding advertising campaign performance made through Datacratic RTB-Opt product. Making sure campaign managers get the best ROI possible by monitoring machine learning models performance on key metrics (Click-Through Rate, Cost Per Click, Cost Per Acquisition).

- Continuously improving the campaign optimization in order to fill campaign managers needs: enable optimization on small campaigns. Improve the system C++ and Python technology stack in order to support new use cases and improve every day operations.

- Development of a machine learning pipeline in Golang using Amazon AWS machine learning and Kubernetes to drive the new audience recognition technology.

Machine learning Intern at Datacratic
September 2014 – January 2015

- Research and development on application of neural networks for online real-time bidding advertising problems. Namely, predict accurately the probability of click by the user given an ad impression.

Research assistant at Mila, University of Montreal
September 2013 – September 2014

- Help develop a Python tool to ease comparisons between machine learning models and enable research for new models for the facial landmarks recognition task.

- Contributions to Pylearn2, a Mila library to ease machine learning model training workflow, in the form of refactoring the codebase and improving logging.

Education

Online courses
- Functional Programming Principles in Scala (Coursera)
- Principles of Reactive Programming (Coursera)
- Machine Learning Engineer Nanodegree Program (Udacity)

Université de Montréal – Master of computer science
2013- 2015

Courses:
- Foundation of machine learning
- Machine learning algorithms
- Quantum information science
- Semantic of programming languages

SUPINFO International University – Bachelor of Science with Honours
2009 - 2013
Computer Science and Information System.