

Thomas Rohée

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## About

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Interested in creating novel and useful tools based on machine learning research, I leverage my expertise in machine learning and development to help bridge the gap between research and application.

## Experience

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### 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 organisations.
- Supervision of machine learning interns from Mila who were responsible for analysing data and developing new models relevant for the clients.
- Involved in producing internal training material on fundamentals of AI.

### Machine learning specialist at Datacratic/iPerceptions

Juin 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

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### 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.