

Mohamed AKROUT

*AI Enthousiast & Practitioner
Technology Writer at Prescouter*

🏠 38, Dan Leckie Way, M5V 4B2 Toronto
☎ (+1) 514-927-5141
✉ makrout@cs.toronto.edu
🐦 @makrouttch

EDUCATION

- 2017 – 2018 **Master of Science**
UNIVERSITY OF TORONTO, TORONTO
Specialization: Machine Learning, Deep learning, Reinforcement Learning
GPA: 4.0/4.0
- 2014 – 2016 **Dual Bachelor of engineering**
TELECOM PARISTECH (ENST), PARIS
Specialization: Statistics & Economy
- 2010 – 2014 **Bachelor of Computer Science**
UNIVERSITY OF MONTREAL, MONTREAL
Specialization: Software engineering
GPA: 3.71/4.0

IT SKILLS

Programming	PYTHON, C++, JAVA, R, PHP, JS, AJAX, SQL
Softwares and tools	AI/ML: Tensorflow Big Data: Hadoop, Spark SCM: Git, SVN Servers: Apache, Postgres

COMMUNICATION SKILLS & HOBBIES

Languages	English : Fluent French : Native Spanish : Beginner
Associations	Mentor at UofT Student Life Programs Former chess member at Poly Montreal
Sports	Chess (Elo: 2068), Table tennis
Hobbies	Violin practice, Traveling (14 countries)

CERTIFICATIONS & DISTINCTION

May 2018	Accelerate Program Scholarship <i>Mitacs - 30.000 \$CAD</i>
January 2018	Addictive Mobility Scholarship <i>University of Toronto - 1.250 \$CAD</i>
September 2014	Dual Degree Scholarship <i>Quebec Government - 6.000 \$CAD</i>
September 2013	UPIR Scholarship <i>University of Montreal - 1.500 \$CAD</i>
May 2013	NSERC Undergrad Scholarship <i>NSERC - 6.000 \$CAD</i>

PUBLICATIONS

Improving Skin Condition Classification with a Question Answering Model

Mohamed Akrouit, Amir-massoud Farahmand, Tory Jarmain — NeurIPS 2018

- build a Question Answering (QA) model that improves the skin disease classification up to 30%.
- Mimic doctors who are able to ask follow-up questions to narrow down the diagnosis.

Benchmarking and Analyzing Deep Neural Network Training

Hongyu Zhu, Mohamed Akrouit, Bojian Zheng, Andrew Pelegris, Amar Phanishayee, Bianca Schroeder, and Gennady Pekhimenko — IISWC 2018

- Benchmark six major ML application domains and eight different state-of-the-art models.
- Build tools for memory profiling that show how much memory is consumed by network training.

PROFESSIONAL EXPERIENCES

MAY 2018 – PRESENT

Research Scientist — Triage, Canada

- Implement a reinforcement learning solution to prototype Triage QA system.
- Improve the classification of skin diseases by incorporating non-imaging data.

JUNE 2016 – MAY 2017

R&D Scientist — Television of France, France

- Implemented optimized algorithms to analyze data from SQL servers.
- Helped the top management to take decisions by providing BI dashboards and KPIs.

MAY 2017 – AUGUST 2017

Neuroscience Intern — ENS ULM, France

- Learned the mathematical models behind RNN variants which use FORCE Learning.
- Modified the backpropagation algorithm by adding finite rank perturbations.

MAY 2013 – AUGUST 2013

NSERC Research Intern — EPM, Canada

- Optimized numerical Navier-Stokes schemes.
- Contributed to an official open-source OpenFoam project.