Alexandre Ramé

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Research Scientist in Deep Learning and Computer Vision. Specialized in domain adaptation, weak supervision, object detection, and semantic segmentation.

Professional Experience

HEURITECH Paris

R&D Lead Research Scientist in Deep Learning

Jan 2016-now

- Main contributor of the **Computer Vision pipeline** that aims at understanding fashion trends through garments detection for images in wild from social media. Leader and manager of the R&D team.
- **Tagging**. Semi supervised classification using *CNN* in *Keras* and *Tensorflow*, domain adaptation, low shot learning with triplets, image retrieval, GAN for dataset generation, color detection with attention, hierarchical classification, incremental learning ...
- **Object Detection**. Own implementation of *Mask R-CNN* in *Tensorflow* with weak labels and partially annotated datasets. Weakly supervised semantic segmentation.
- NLP. Language modeling, multilingual words and sentences embeddings, unsupervised named entity recognition, classification, clustering and language detection.

FLAMINEM Paris

R&D Research Scientist in Data Science

Sep 2015-Dec 2015

Analyzed web users journeys to predict long-term purchase decision. Big data challenges on Spark.

CLARAVISTA Paris

Data Scientist Apr 2014-Jul 2014

Classification and clustering of internet behaviours. Proximal stochastic average gradient descent in *Scala* under the supervision of Francis Bach.

Education

COLUMBIA University

New York, USA

Master of Science in Operations Research (GPA: 3.9/4)

Sep 2014-May 2015

- Majors: Advanced Machine Learning, Artificial Intelligence, Deep Learning and Data Mining.
- Minors: Statistics, Stochastic, Deterministic, Simulation, Sports Analytics, Algorithms and Programming.

Ecole POLYTECHNIQUE

Palaiseau, France

Diplôme d'Ingénieur (GPA: 3.7/4)

Sep 2011-May 2014

- Major: Applied Mathematics. Courses in Optimization, Statistics, Stochastic Finance, Queuing theory, Times Series Analysis, Complex Systems and Operations Research.
- Minors: Computer Science, Economics, Physics, Entrepreneurship and Mathematics.

Lycée SAINTE-GENEVIEVE

Versailles, France Sep 2009-Jul 2011

MP* INFO.

Publications

Alexandre Rame, Emilien Garreau, Hedi Ben-Younes, and Charles Ollion. Omnia faster r-cnn: Detection in the wild through dataset merging and soft distillation. *arXiv* preprint arXiv:1812.02611, 2018.

Charles Corbiere, Hedi Ben-Younes, Alexandre Ramé, and Charles Ollion. Leveraging weakly annotated data for fashion image retrieval and label prediction. In *Computer Vision Workshop (ICCVW)*, 2017 IEEE International Conference on, pages 2268–2274. IEEE, 2017.

Conferences & Teaching

Deep Learning Meetup #16

Paris, France Jan 2019

Conference Speaker OMNIA Faster R-CNN.

Master Data Science I'X-Paris Sacalt

Palaiseau, France

Teacher Assistant

Deep Learning course by Charles Ollion and Olivier Grisel.

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Deep Learning Meetup #6

Paris, France Feb 2017

2017-2018

Conference Speaker
Correlational Neural Networks for multilingual embeddings.

Sannois, France

Fondation D'Auteuil *Volunteer Teacher and Youth Leader*

Nov 2011-Mar 2012

Skills & Interests

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O Programming Languages:

- Python **Deep Learning** tools (*TensorFlow, Keras, PyTorch, Theano, Caffe*) and **Machine Learning** (*xgboost, scikit-learn, Gensim*).
- Bash, Scala, R, Spark, Hadoop, SQL.
- o Languages: French(native), English (fluent).

C Languages. Trenen(native), English (nuent)

- Internet Community: Medium writer, Quora active reader, Arxiv sanity user.
- o **Sport**: Tennis, ski, squash, football.
- o Games: Chess, Go, board games.

Projects

Summer School

- PRAIRIE AI of INRIA in Grenoble (Jul 2018).
- Data Science Summer School of Ecole POLYTECHNIQUE in Palaiseau (Sep 2017).
- Deep Learning Summer School of **MILA** in *Montréal* (Aug 2016).

o Kaggle

- Otto group product classification challenge (116/3514).
- American Epilepsy Society Seizure Prediction Challenge.
- MOOC: Convolutional Neural Networks for Visual Recognition by Andrej Karpathy, Deep Learning and Machine Learning by Andrew Ng, Introduction to Data Science by Bill Howe, Probabilistic Graphical Models by Daphne Keller and Functional Programming Principles in Scala by Martin Odersky.