Arthur **Douillard**

Deep Learning Engineer in Computer Vision

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Education

M.S. in Computer Science (*Diplôme d'ingénieur*) — *Paris, France*

EPITA — *2013 - 2018*

- Machine Learning, Deep Learning, NLP, Python, C++, Golang, Scala/Kafka/Spark, Image processing, Text Mining
- Stats & Proba, Linear Algebra, Convex Optimization, Logic

Experience

Dataiku — *Paris, France*

Data Scientist Intern — *Feb - Aug 2018*

- Elaborating Deep Learning models for computer vision (transfer learning, detection, training schedule, etc.).
- Created a GPU monitoring webapp sold to a Fortune 100 company.
- Currently competing for the NATO innovation challenge using Deep Learning for Computer Vision.

ZebrIA — *Paris, France*

Deep Learning Engineer — *Aug 2017 - Jan 2018*

- Researched & Implemented SotA NLP papers for a medical chatbot.

EPITA — *Paris, France*

Teacher Assistant (*YAKA* / *ACU*) — *Jan 2017 - Jan 2018*

- Taught C, C++, Shell, SQL, Java, and algorithmic concepts to 2 classes of 350 Third Year students.

MyDrive Solutions — *London, United Kingdom*

Data Scientist Intern *(reference available)* — *Sept 2016 - Jan 2017*

- Analyzed and applied Machine Learning algorithms on driver data in Python (Pandas, Scikit-Learn, Keras) and R

Personal Projects

- **Implementation in Keras/TF** of Snapshot Ensemble, FreezeOut, EffNet, FashionNet, and Squeeze-Excite-Net.
- **Implementation in Pytorch** of VQA and Variational Autoencoders.
- **Kafka pipeline** in Scala/Python with multi-threaded web-scrapper, **sentiment analysis** and processing with Spark-Streaming.
- Memory allocator on a **cluster of machines using MPI**.
- Minor contribution to scikit-learn fixing a bug in the RFECV algorithm.
- Efficient implementation of Damerau-Levenshtein distance with **Radix Trie** in C++.
- A small **search engine in Golang**, with indexation & search done through a custom pool of Goroutines.
- **Compiler front-end/back-end** for the language Tiger, coded in C++, YACC, Bison, and several flavors of ASM.

Skills

- **Programming Languages**: Python C/C++ SQL Java Scala Golang R Shell Latex
- **Data Science**: Keras Tensorflow Scikit-Learn Numpy Pandas PyTorch
- **Tools & OS**: Linux MacOs Git Jupyter Vim VSCode
- **Languages**: French (native) English (TOEIC 965/990) Spanish Esperanto & Korean (notions)