Arthur **Douillard**

DEEP LEARNING ENGINEER IN COMPUTER VISION

Paris, France

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Education

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

EPITA   *Advisor: Reda Dehak*   *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*

RESEARCH ENGINEER INTERN   *Advisor: Léo Dreyfus-Schmidt*   *Feb - Aug 2018*

- Implemented deep learning models for computer vision (transfer learning, detection, training schedule, etc.).
- Created a GPU monitoring webapp sold to a Fortune 100 company.
- Won the NATO Innovation Challenge as the lead scientist of my team.
- Organized & presented internal conferences on deep learning.

ZebrIA   *Paris, France*

GRADUATE STUDENT RESEARCHER   *Advisor: Guillaume Palacios*   *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   *Advisor: Zoulficar S. Younes*   *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)