

Rafael Cartenet

MACHINE-LEARNING R&D ENGINEER

103, Rue Gabriel Peri, 92120, Montrouge

☎ +33642466312

| ✉ rafael.cartenet@gmail.com

| 🏠 rafaelcartenet.github.io

| 🗣 RafaelCartenet

| 🌐 rafaelcartenet

Experience

Openfield

Paris, France

MACHINE-LEARNING R&D ENGINEER

June 2018 - Present

- Passengers flow analysis over railway network, real flow representations using Wifi devices detections.
- Geolocalization using RSSI WiFi signals for path segmentation.

Mediasia Labs

Shanghai, China

MACHINE-LEARNING - AUDIO, R&D ENGINEER INTERN

Aug. 2017 - Feb. 2018

- Research and development on emotion recognition in voice.
- Working on phonetic-level pronunciation assessment tool for language learners, using several ML techniques, clustering and classification.
- Designed and implemented phonetic segmentation tool using ML prediction model and dynamic programming based matching algorithm.

AIM KAIST

Daejeon, S.Korea

RESEARCH ASSISTANT, LABORATORY INTERN

March 2017 - June 2017

- Interned at AIM laboratory (Artificial Intelligence & Machine-Learning) under supervision of Pr. Chang D. Yoo.
- Participated in CVPR'17 Workshop on Youtube-8M Dataset: Video Classification. Implemented Attention-Based Bidirectional LSTM.

Education

KAIST (Korea Advanced Institute of Science and Technology)

Daejeon, S.Korea

GRADUATE EXCHANGE PROGRAM

Sept. 2016 - June. 2017

- Specialized in Computer Science with a Machine Learning minor.
- Coursework: Deep Learning, Natural Language Processing, Computer Vision, Search Based Soft. Eng., AI and Machine Learning.

INSA (National Institute of Applied Sciences)

Rouen, France

MASTER OF ENGINEERING (M.ENG.)

Sept. 2012 - April 2016

- Specialized in Mathematics and Computer Science.
- Coursework: Algorithms, Optimization, Markov Chains, Linear Algebra, Statistics, Differential Equations, Probability, Databases.

Extracurricular Activities

Various projects

DEVELOPER

2016 - 2017

- Mini AlphaGo: Trained an AlphaGo-based AI of Go game, using Deep Neural Nets and MonteCarlo Treesearch.
- Depth from Focus: Depth refinement algorithm using image alignments and graph cuts methods.
- Resource Allocation Optimization: Using search-based optimization techniques, optimized virtual machines distribution in the Cloud.
- Instagram Robot: Designed and developed Instagram bot for automatic comments generation using Json requests and python routines.

Competitive Programming

COMPETITOR

2014 - 2017

- Hackatons GoogleHashcode 2015, ACM ICPC KAIST Mock Competition, Cod'INSA, BattleDev
- CodinGame.com: AI monthly challenges (top 10 python3), HackerRank

Skill highlights

Programming

- Proficient with: **Python, Tensorflow, Apache Spark, Scikit-Learn, Torch7, Matlab, MongoDB, Bash, Git.**
- Familiar with: C/C++, SQL, Java.

Spoken languages

- French: Native Language
- English: Professional proficiency
- Spanish: Proficient