

Data Science Master's Degree Student

« Make Perceptron Great Again! »



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WORK EXPERIENCE

CNES



Internship 6 months

02/2019 - 09/2019

Toulouse, France

National Center for Space Exploration

 Satellite Image Segmentation for SWOT space mission (2021) with FCN / Dillated Convolution / UNet like architectures



Center for Machine Perception

Research Internship 3 months

06/2018 - 08/2018 CMP, Czech Technical University Prague, Czech Republic

 Compressing by 3 the size of a NIPS Neural Network without any score drop with separable convolutions and prunning in PyTorch



IRIT — SAMoVA group

Research Internship 3 months

06/2017 - 08/2017Toulouse, France Institut de Recherche en Informatique de Toulouse, Toulouse University

 Clustering faces (re-identification) by identity & emotions on videos with siamese and triplet networks in Keras, scikit-learn, OpenCV



THALES Avionics

Internship 3 months

Toulouse, France

 Developing an anomaly detection software for server monitoring with Python, SQL, Docker & Android

EDUCATION



Data Science Master's Degree

Sorbonne University - UPMC Faculty of Science and Engineering

2017 - 2019

Jussieu. Paris. France

Courses & Project

- Machine Learning, Computer Vision, Natural Language Processing, Business Intelligence, Artificial Intelligence
- Research project on conversational systems for information retrieval (under supervision of Laure Soulier & Ludovic Denoyer)
- 2nd semester with honors



University degree in Computer Science

Université Jean-François CHAMPOLLION

Albi, France

- Tutor for freshman and second year students
- Validated with honors
- Leading team projects with git and trello from 3 to 5 collaborators



6+ months of online education

- Machine Learning: Classification 7 weeks online University of Washington — coursera.org/verify/ANB2RMMA5PG5
- Detección de objetos 6 weeks Universitat Autònoma de Barcelona — coursera.org/verify/M2VA24EZXA
- Machine Learning 11 weeks Stanford University coursera.org/verify/P9AD628X7GFK

SKILLS

Machine Learning NLP **Deep Learning Computer Vision** Reinforcement Learning **Data Science Models Compression** Codina Python Flask Hadoop

SOME PROJECTS

Natural Language Query traduction into Keywords (2018)

- Report (state of the art & results found french): https://goo.gl/rqKoZT
- Diverse methods used: Seg2Seg, CRF (innovative & space efficient), BM25
- Dataset constructed from (several Go size): Wikipedia, SQuAD, QALD

Detection of Generic in Series using Perceptual Hash on video frames (2016 - 2017)

- Talk given at Paris Machine Learning Meetup: bit.ly/gnrictalk
- Code: bit.ly/phashgnricReport: https://goo.gl/Mg15hP

Python Package for Automatic REST API Generation (2019)

- Package: bit.ly/bapiPIPCode: bit.ly/bapiDOC
- Python3.7, no dependency, introspection, REST HTTP server, 3 lines

TF-IDF Pdf Search Engine (2016)

Code: bit.ly/podofo Demo: bit.ly/podofoDmo

Visualisation of Drone VS Suicide Blast Attack in Pakistan (2017)

- Demo: https://youtu.be/-ie8qfa5QpA
- Managing project & building a web platform for data visualisation using FireBase, Ajax, JQuery, Bootstrap & other javascript frameworks

Kaggle Competitions (2018)

Plant SeedIngs: TOP 17 % Stateoil Iceberg: TOP 23 %

Apps (Android / Web)

- Apps published on Google Play (2015-16): bit.ly/ormps
- Learn arabic alphabet in efficient way (2019): bit.ly/aralang in React & Material UI, with hand drawing recognition for auto assessment

Re-Implemented Papers

- Distilling the Knowledge in a Neural Network (NIPS '14)
- U-Net: Convolutional Networks for Biomedical Image Segmentation (MICCAI '15)
- Explaining and Harnessing Adversarial Examples (ICLR '15)
- Highway Networks (ICML'15)
- Adversarial Discriminative Domain Adaptation (CVPR '17)
- Adversarial Reprogramming of Neural Networks (ICLR'19)
- https://github.com/VieVie31/cool-papers-in-pytorch

LANGUAGES

French: C2, bilingual English: B2, fluent

INTERESTS

Machine Learning Piano (since 6 years old)

Flute (since 1 year)

Pipe Organ (since 12 years old), interpretation & improvisation

Archery

Scouting

Archeology

Knowledge Sharing