

Jean-Baptiste Lamare

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Master's Student in Machine Learning and Natural Language Processing - Graduating August 2019

Education

- August 2019 **Carnegie Mellon University, School of Computer Science (Pittsburgh, PA)**
Master of Language Technologies - Natural Language, Computer Vision, Audio processing
Selected coursework : *Algorithms for NLP, Grammars and Lexicons, Search Engines, Neural Networks for NLP (Teaching Assistantship), Deep Learning, Multimodal ML*
- August 2017 **Ecole Polytechnique, Computer Science department (Palaiseau, France)**
Master of Data Science, GPA : 3.84/4 - Bachelor of Science, GPA : 3.86/4
Selected coursework : *Machine Learning, Big Data, Databases, Text Mining and NLP Linear Regression, Markov Chains, Probabilities, Mechanics, Economics*

Professional Experience

- August 2017 **Carnegie Mellon University (Pittsburgh, PA)**
August 2019 Graduate Research assistant (Machine Learning, NLP and CV) - advisor : Alexander G. Hauptmann
24 months
 - Developed a **useful tweets extraction** system for public safety events (dataset and models) - **publication**
 - Collected a dataset and implemented models to **detect accidents** on traffic camera videos - **publication**
- April 2017 **SRI International (Menlo Park, CA)**
August 2017 Machine Learning Intern at the Computer Science Laboratory
4 months
 - Collected a dataset of ransomware related paragraphs through web scraping and mechanical turk
 - Developed and compared different question answering models on the dataset (including LSTMs)
- June 2016 **Pzartech (Tel-Aviv, Israel)**
August 2016 Developer Intern in an Israeli startup that develops a 3D printing application
3 months
 - Set up a secure network between a cloud platform and different 3D printers

Projects

- August 2018 **Embodied Question Answering (EQA)**
December 2018 Carnegie Mellon University (Pittsburgh, PA)
3 months
 - Improved the Visual Question Answering (VQA) and navigation metrics on the EQA task
 - Worked on deep learning applied to VQA and navigation in a 3D environment in Pytorch
- January 2018 **A Neural Music Critic**
May 2018 Carnegie Mellon University (Pittsburgh, PA)
4 months
 - Developed a tool that automatically writes a review from the audio file of a song
 - Worked on Music Processing and Conditioned Text Generation with CNNs and LSTMs in Pytorch
- January 2018 **Turning Day into Night**
May 2018 Carnegie Mellon University (Pittsburgh, PA)
4 months
 - Developed a tool converting a daylight picture into the same image at night
 - Worked on Generative Adversarial Networks in Pytorch
- August 2016 **Fact-Checking application in collaboration with IBM**
March 2017 Ecole Polytechnique (Palaiseau, France)
7 months
 - Developed a tool determining a statement's veracity by searching through a news database
 - Worked on Text Mining and Natural Language Processing using IBM Watson
- August 2015 **Mine-hunting drone : awarded the "Prix des PSC" prize (3rd best out of 81)**
May 2016 Ecole Polytechnique (Palaiseau, France)
9 months
 - Designed and constructed a mine detection system, embedded on a flying drone
 - Built the whole data processing module from scratch

Skills

- Fields : Machine Learning, NLP, Inf. Retrieval, Comp. Vision, Web Scraping
Programming languages : Python, Java, C++, R, SQL, HTML
Machine Learning frameworks : PyTorch (cuda), Tensorflow (cuda), Scikit-learn, Pandas, Numpy
Tools/Technology : AWS, Lucene, MapReduce, Scilab, Git, Django, Raspberry
Languages : English (fluent), French (native), German (intermediate), Spanish (beginner)

Miscellaneous

- Hobbies** : Competitive tennis and skiing, guitar, piano, improvisational theater, chess, traveling
Student activities : Ski team (Team captain), Tennis club, Job Fair Organizer (Head of the Industry unit)