

Jean-Baptiste LAMARE

Research Scientist | Deep Learning and NLP

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EDUCATION

CARNEGIE MELLON UNIVERSITY (CMU), SCHOOL OF COMPUTER SCIENCE - PITTSBURGH, PA 2017 - 2019
M.S., Language Technologies - Focus : Natural Language, Computer Vision, Audio Processing

ECOLE POLYTECHNIQUE, DEPARTMENT OF COMPUTER SCIENCE - PALAISEAU, FRANCE 2012 - 2017
M.S., Data Science - Focus : Machine Learning, Databases, Text Mining and NLP
B.S., Mathematics and Computer Science

PROFESSIONAL EXPERIENCE

ENLITIC San Francisco, CA	SENIOR RESEARCH SCIENTIST (April 2021 - Present) RESEARCH SCIENTIST (August 2019 - April 2021) <ul style="list-style-type: none">• Parsed and analyzed millions of EHR and DICOM data points to extract insightful features in order to streamline the work of radiologists.• Developed self-supervised, supervised and unsupervised NLP models for multiclass/multilabel classification, NER, and entity linking, using various architectures (transformers, BERT, RNNs...) to detect over 70 abnormalities in clinical reports, extract entities and match them to our ontology.• Implemented several NLP models and pipelines for free text report structuring, allowing the identification of sections relevant to each target feature.• Trained supervised multilabel computer vision models, as well as multimodal models at the intersection of CV and NLP, to detect over 20 abnormalities in radiological images, specifically X-rays.• Designed end-to-end labeling pipelines for reports and images, including interface design, case selection, quality assurance that would be used by over 15 experts to label more than 100,000 studies.• Developed and maintained several shared repositories and python packages for deep learning model training (Keras-like), model deployment, as well as NLP pipeline creation (spaCy-like).• Led a successful blind test demonstrating model outputs on independently managed datasets for prospective clients.	2019 - PRESENT
CMU Pittsburgh, PA	GRADUATE RESEARCH ASSISTANT <ul style="list-style-type: none">• Collected and labeled a dataset of tweets during public safety events.• Developed a Deep Learning useful tweets extraction system for public safety events to identify tweets that contain information helping the authorities respond to such crises.• Designed and implemented a web interface for users to visualize extracted tweets in real-time and provide feedback on which tweets are actually useful, feeding an active learning paradigm.	2017 - 2019

PUBLICATIONS

EMNLP 2020 Clinical NLP WS	ON THE DIMINISHING RETURN OF LABELING CLINICAL REPORTS Jean-Baptiste Lamare, Tobi Olatunji, Li Yao	NOVEMBER 2020
AVSS 2018 T4SWS	ACCIDENT FORECASTING IN CCTV TRAFFIC CAMERA VIDEOS Ankit Shah, Jean-Baptiste Lamare, Tuan Nguyen Anh, Alexander Hauptmann	NOVEMBER 2018
ICMR 2018	MULTIMODAL FILTERING OF SOCIAL MEDIA FOR TEMPORAL MONITORING AND EVENT ANALYSIS Po-Yao Huang, Junwei Liang, Jean-Baptiste Lamare, Alexander Hauptman	JUNE 2018

SELECTED PROJECTS

EMBODIED QUESTION ANSWERING (EQA) <ul style="list-style-type: none">• 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.	AUGUST 2018 - DECEMBER 2018
A NEURAL MUSIC CRITIC <ul style="list-style-type: none">• Created a model 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 - MAY 2018

SKILLS

Programming Languages	Python, Java, C++, R, SQL, HTML, Javascript, CSS
Machine Learning frameworks	PyTorch, Tensorflow, spaCy, Stanza, Scikit-learn, Pandas, Numpy
Other Tools/Technology	Git, AWS, Elasticsearch, Mechanical Turk, Raspberry
Languages	English (fluent), French (native), German (intermediate), Spanish (beginner)

MISCELLANEOUS

Hobbies Competitive tennis and skiing, guitar, piano, chess, baking, traveling.