

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 Processing, Computer Vision, Audio Processing	
ECOLE POLYTECHNIQUE, DEPARTMENT OF COMPUTER SCIENCE - PALAISEAU, FRANCE	2012 - 2017
M.S., Data Science - Focus : Machine Learning, Databases, Natural Language Processing	
B.S., Mathematics and Computer Science	

PROFESSIONAL EXPERIENCE

ENLITIC San Francisco, CA	SENIOR RESEARCH SCIENTIST (April 2021 - Present) RESEARCH SCIENTIST (August 2019 - April 2021)	2019 - PRESENT
	<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 (transformer, BERT, RNN...) 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, including interface design, case selection, and 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.	
CMU Pittsburgh, PA	GRADUATE RESEARCH ASSISTANT	2017 - 2019
	<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.	

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

ACADEMIC PROJECTS

EMBODIED QUESTION ANSWERING (EQA)	AUGUST 2018 - DECEMBER 2018
<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.	
A NEURAL MUSIC CRITIC	JANUARY 2018 - MAY 2018
<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.	

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.