Olivier Nguyen

NLP, Deep Learning, ML Engineering

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EXPERIENCE

Element AI   Applied Research Scientist

September 2018 — Present   Montreal, Canada

• Led work on semantic search, information retrieval and question answering for Knowledge Scout, a product that helps businesses with knowledge management and discovery; turned proof-of-concepts into core functionalities of the product
• Built and deployed ML models for information extraction from 2D documents for Document Intelligence, a flagship product for automated document processing; actively involved from early research, to proof-of-concepts, MVP, and launch
• Developed and deployed text classification models to accelerate insurance clerks' workflows, reducing the time and number of errors during data entry
• Built deep learning models for table detection and entity extraction on bill of ladings and insurance forms; presented work and recommendations to partner clients

NTT Media Intelligence Lab   Research Intern

January 2015 - August 2015   Yokosuka, Japan

• Built, trained and evaluated multi-modal models for a media event detection pipeline; submitted evaluation runs to TRECVID MED 2015
• Ran experiments combining objection detection, deep CNN features with traditional visual and audio features for the MED task submission

Thales / Concordia University   Research Assistant

May 2014 - December 2014   Montreal, Canada

• Implemented signal processing algorithms on a TMS570 microcontroller in C for amplitude estimation of a sensor
• Optimized code to meet real-time requirements using fixed point representations

PROJECTS

GSoC 2017	Contributed to Shogun, an open-source ML library in C++. Blogged weekly about a project for mortality prediction using the MIMIC-III dataset
PASS	Developed an ML pipeline that filters and aggregates Twitter data to provide population-level indicators of health for all regions in Canada
ConSat-3	1st Place at the Canadian Satellite Design Challenge; Developed and integrated embedded Linux applications for a cube satellite
Jeux de Genie '15	1st Place against all engineering schools in Quebec; Developed the software for a fully autonomous robot that had to complete multiple tasks around a complex track

SKILLS

Programming languages

• Python
• C/C++
• Java
• Javascript
• Bash
• SQL

ML frameworks & libraries

• PyTorch
• HuggingFace stack
• TorchServe
• pandas
• scikit-learn
• NumPy
• spaCy
• TensorFlow
• MLFlow

Software development tools

• Docker
• git
• Flask/FastAPI
• PostgreSQL
• Redis
• Celery
• Kubernetes

EDUCATION

MASc Elec. & Comp. Engineering

2016 - 2018

University of Waterloo
Advisors: Mark Crowley, Joon Lee

BEng Computer Engineering

2012 - 2016

Concordia University