

Minh Tri LÊ

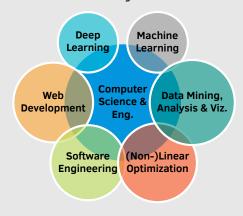
Industrial Ph.D. Student in Deep Learning

leminhtr.github.io **Linked** in /in/MinhTri-Le

GitHub /leminhtr

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Skills Summary -



Computer languages -

Python, C/C++, JS/TS

TF2/PyTorch, Scikit-Learn, Numpy

R, SQL3, Matlab, Angular 5, LTFX

Node.js

Software and Tools —

Git, RDBMS, REST API

ElasticSearch, Kibana, Gephi

Wireshark, After Effects/Premiere Pro

MongoDB, Neo4j

Languages -

English French Italian Spanish Vietnamese Polish Chinese

Projects

Feb - Jun Lab project: Predicting English level by analyzing writing styles 2018 Predicted the fluency of a learner regarding the CEFR (A1, A2,...) from their written production (20 - 300 words)

- Experimented various machine learning algorithms (Regression, KNN, SVM, Neural networks) and methods (Hyperparameter optimization, stacked model) and libs (NumPy, Scikit-learn, Keras)
- Predicted 83% accuracy at best from 56 quantitative features (given) extracted from raw text (136.000+68.000 training/testing samples)

Lab project: Data analysis of educational content for Faq2sciences.fr Feb - Jun 2017 Conceived a learning dashboard for professors and students from educational data to help identifying students difficulties in collaboration with Kelis IT team. Link to project evaluation by the jury: here (French)

- Analyzed data (test results, answering time) using ElasticSearch to understand student progress and behavior (≈ 75.000 guiz samples)
- Designed a learning dashboard from the analysis with Kibana and then Plotly, intended for an integration to Fag2sciences website

Education

2020 - 2023 Ph.D. (CIFRE) - Artificial Intelligence Université Grenoble Alpes Deep learning for micro-embedded systems. Grenoble, France Industrial Ph.D, supervised by Etienne de Foras, Sr. software engineer @TDK InvenSense & Julyan Arbel, researcher @INRIA Grenoble Keywords: Neural Networks, TinyML, Model Compression, Edge Inference, Meta-Learning, Micro-embedded Systems, AutoML, NAS

2013 - 2019 M.Sc. - Computer Science & Eng. Université de Technologie de Compiègne Specialization: Decision and Data Mining Compiègne, France •Data Analysis & Data Mining •Data Warehouse & Decision Support •Lab Projects •Linear/Nonlinear Optimization

2018 - 2019 M.Sc. - Computer Science Scuola Politecnica di Genova Master: Laurea Magistrale in Ingegneria Informatica Genoa, Italy •Double European Master degree (EMECIS): European Master in Engineering for Complex and Interacting Systems (Erasmus exchange)

2018 - 2019 M.Sc. - Complex System Engineering Specialization: Machine Learning, Optimization of Complex Systems • Double European Master degree (EMECIS), in parallel of my final-year at the UTC. Part of the LABoratory of EXcellence Labex MS2T program

Work Experience

Jun 2020 -Industrial Ph.D. Student in Artificial Intelligence TDK - InvenSense & INRIA Current Deep Learning applied to signal processing for Grenoble, France micro-embedded systems. CIFRE Ph.D. between TDK InvenSense & INRIA Keywords: Neural Networks, TinyML, Model Compression, autoML, ...

Machine Learning Research Internship Feb - Aua TDK - InvenSense 2019 Research project: Deep Learning applied to CPU Grenoble, France constrained targets (MEMS sensors). First part of a broader PhD thesis. Link to my supervisor's recommendation letter: here **Keywords**: Embedded neural networks, autoML, quantization

• Objectives include: Outperforming current classic algorithms in accuracy, power consumption & efficiency of the design cycle

• First application to fingerprints: classification of dry vs wet finger and detection of finger push or pull events

Sep 2017 -**Web Development Internship** Feb 2018

Development of a Cloud connected Keyboard Application Austin, USA Link to my internship evaluation by my supervisor: here

Metadot Corporation

- Improved real-time communication latency with socket connection to receive signals from the cloud to the application in \approx 30ms
- Implemented and suggested new features: Dashboards for socket connections and task scheduler (w/ Angular 5)

Miscellaneous

Data Venture: Active member for related data science projects Association

Erasmus Student Network: Organized events for international students