



Minh Tri Lê

Machine Learning Engineer

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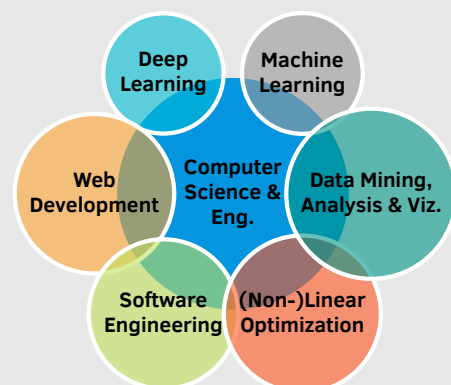


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Skills Summary



Computer languages

Python, C/C++, JS/TS

tf/Keras, Scikit-Learn, Angular 5

R, SQL3, Plotly, Matlab, Node.js, \LaTeX ,

CPLEX

Electron, Prolog, Common Lisp

Software and Tools

Git, RDBMS, REST API

ElasticSearch, Kibana, Gephi

Wireshark, After Effects/Premiere Pro

MongoDB, Neo4j, Pentaho

Languages

French English Italian

Spanish Vietnamese Polish

Chinese

Projects

Feb - Jun 2018 **Lab project: Predicting English level by analyzing writing styles**
 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)

Feb - Jun 2017 **Data analysis and Data mining**
 • Conducted 4 coursework in supervised and unsupervised learning
 • Applied data mining algorithms and data analysis techniques from scratch on various datasets with R (K-means, PCA, KNN, Regression...)

Feb - Jun 2017 **Lab project: Data analysis of educational content for *Faq2sciences.fr***
 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 (\approx 75.000 quiz samples)
 • Designed a learning dashboard from the analysis with Kibana and then Plotly, intended for an integration to *Faq2sciences website*

Education

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* • *Operations Research*
 • *AI (Symbolic/Logic programming)* • *Fuzzy Logic* • *Distributed Systems*

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** *UT - Compiègne*
 Specialization: **Machine Learning, Optimization of Complex Systems**
 • Part of the double European Master degree (EMECIS), in parallel of my final-year of engineering studies at the UTC

Work Experience

Feb - Aug 2019 **Machine Learning Research Internship** *TDK - InvenSense*
 Research project: Deep Learning applied to CPU Grenoble, France
 constrained targets. First part of a broader PhD thesis.

Link to my supervisor's recommendation letter (PhD application): [here](#)
 Keyword: *Constrained/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 - Feb 2018 **Web Development Internship** *Metadot Corporation*
 Development of a *Cloud connected Keyboard Application* Austin, USA
Link to my internship evaluation by my supervisor: [here](#)

- 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)

Jul - Sep 2015 **Intercultural Internship** *Molmare Guest House*
 Volunteer in a guest house (Feedback at *Workaway.info*) Puck, Poland
 • Welcomed the guests, prepared meals and guest rooms
 • Lived within a foreign culture: Analyzed cultural differences at work and in social interactions

Miscellaneous

Association *Data Venture*: Active member for related data science projects
Erasmus Student Network: Organized events for international students