Duc-Anh TA

Master of Science in Informatics
Artificial Intelligence

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✓ OBJECTIVE

My main strengths include knowledge of artificial intelligence, programming techniques, and embedded system. Moreover, learning a new programming language and discovering technology has always been my strong advantage and passion. At present, my primary orientation is not only building practical applications with machine learning but also taking advantage of artificial intelligence (Natural Language Processing, Inductive Logic Programming, Image Processing, etc.) to develop intelligent systems.

✓ TECHNIQUES

Python (3 years)	●●●●●
Machine Learning (2 years)	●●●●●
SQL/NoSQL (5 years)	●●●●●
HTML/CSS/JS (3 years)	●●●●○
C/C++ (5 years)	●●●●●
Unix/Linux (3 years)	●●●●○
Embedded System (5 years)	●●●●●

✓ SKILLS

Teamwork/Networking	●●●●○
Work Under Pressure	●●●●●
Fast Learner	●●●●●
Analysis	●●●●●
Time-Management	●●●●○
Creativity/Flexibility	●●●●○

✓ LANGUAGES

English	●●●●○
French	●●●●○
Vietnamese (mother language)	●●●●●

✓ CERTIFICATIONS

- Semantic Web and Web of Data (by INRIA) – 2021.
- Reproducible research: methodological principles for transparent science (proposed by INRIA) – 2021.
- Coursera: Developing AI Applications on Azure – 2020.
- Hanoi University of Science and Technology: Science Research Conferences – 2016.

✓ PERSONALITY

Disciplined, Hardworking, Active, Curiosity, Serious

✓ INTERESTS

✓ EDUCATION

Artois University, France (2019 > 2021)
Master of Science in Artificial Intelligence (AI) (BAC +5).
Thesis: Automatic completion of Ontologies: Case of Instances (Very good)
Mention: Good (Ranking 2nd in the class)
Graduate Master in 2021

Artois University, France (2018 > 2019)
French as a Foreign Language Preparation for Graduate Studies (DU FLEPES)
Graduate in 2019

Hanoi University of Science and Technology, Vietnam (2012 > 2018)
Industrial Informatics and Automation (II), Programme de Formation d'Ingénieurs d'Excellence au Vietnam (PFIEV Program) (BAC +5).
Thesis: IoT Environment Monitoring (Very good)
Graduate Engineering in 2018

✓ EXPERIENCE

Master Internship (AI) (03/2021 > 08/2021)
Subject: Automatic Completion of Ontologies: Case of Instances (Very good).
Laboratory: CRIL, Artois University and CNRS.

Description: Contributing a framework (implemented by Python and Java) to detect and discover the new knowledge (leveraging Inductive Logic Programming). A convolutional network on the graph (R-GCN) is built by TensorFlow and PyTorch. Our R-GCN model classifies multi-labels with a template proposed. Dataset is the ABox assertion (individuals) originated from Ontology (OWL – using OWLReady2 library). Our Dataset was pre-processed by techniques of Natural Language Processing (NLP). The final result improved via the AdaBoost Algorithm.

Practical Project (AI) (09/2020 > 12/2020)
Subject: Prediction of Car Emissions.
Description: Predicting the car emissions with Machine Learning techniques: Multi Linear Regression, Random Forest, Support Vector Machine (SVM), etc. The raw dataset is pre-processed (using Pandas library) by selecting the significant features (Data mining) for the prediction. Our model is built with using Keras, Scikit-learn.

Engineer internship (Industrial) (05/2017 > 09/2017)
Subject: IoT Environment Monitoring (Very good).
Company: Mlab Embedded Solutions (Vietnam).

Description: Taking advantage of Control Engineering and Automation to build an Environment Monitoring system. Contributing three main parts: (1) Building a NoSQL Database (using MongoDB); (2) Developing a Webserver (by NodeJS) to collect and process the data from Environmental Monitoring Device (EMD); (3) Creating the EMD and collecting data via sensors (by Arduino) and transport them back to Webserver by Internet (using Module Sim900A).

Science Research (Industrial) (02/2016 > 05/2016)
Subject: Data Communication and Control solutions for Environmental Monitoring Equipment using GSM.
University: Hanoi University of Science and Technology.

Description: Building a solution for collecting data and controlling the device via SMS. Contributing two main components: (1) Developing a receiver kit (by Intel Galileo and Linux OS) to process and parse packet via a strictly formal template; (2) Developing a sender kit (by Arduino and Sim900A) to collect and pack the data from the sensor.