PHAM Van Tuan

Ph.D. in Computer Science, focus on Machine Learning, NLP.

Passionate about Machine Learning and AI, I'm skilled in Python and have contributed to several industry projects. Always learning and keeping up with the latest advancements of AI.

PERSONAL INFORMATION

Fullname	: PHAM Van Tuan	Mobile phone	: +33749818545
Email	: phamtuantkt@gmail.com,	Current residence	: Metz, France
LinkedIn	: linkedin.com/in/danielphamvt	Personal page	: *danielphamvt.github.io/cv*

EDUCATIONS

- ✓ **Ph.D. in Computer Science** (2020-2023), University of Lorraine, France
- ✓ **Master II in ICT** (2015-2016) (English program), University of Lorraine, France.
- ✓ **Master I in ICT** (2014-2015), University of Science and Technology of Hanoi, Vietnam
- ✓ **Bachelor in MIS** (2008-2012), National Economics University, Hanoi, Vietnam

WORK EXPERIENCES

- ✓ **Postdoctoral/ R&D engineer** (12/2020 to 02/2024): LCOMP-University of Lorraine. Tech-leader in the project DCASOLVER, implement optimization algorithms for industrial challenges and create an associated commercial website.
- ✓ **PhD candidate** (10/2020 to 11/2023): LGIPM-University of Lorraine. Thesis: "*New Machine Learning Techniques for Finance and Healthcare*". Propose new methods applied in SVM, Bagging, and BERT to handle some problems in health and finance.
- ✓ **University Lecturer** (08/2012 to 10/2020): National Economics University, Vietnam. Teach courses: Fundamental Computer Science, Applied Informatics, Management Information Systems. Conduct research in the domain of Artificial Intelligence.
- ✓ **Data Engineer and Web Developer** (08/2019 to 12/2019): VinTech Group, Vietnam. Engage in the implementation of an AI-based Logistics system (web) with Django, Boostrap, GoogleMap APIs.
- ✓ **Machine Learning Engineer** (12/2017 to 07/2019): NAL Jsc. Vietnam. Work in a young and passionate team, built AI-based applications for various outsourcing projects such as Operator Chatbot, Face lock system, Dialog System, and Social Sentiment Analysis.
- ✓ **NLP Engineer** (10/2016 to 10/2017): Chappiebot Inc., Vietnam. Develope clever algorithms and pragmatic solutions for an AI-Based Car Search System: NER, Topics classifiers, Sentiment Analysis, and Dialogue Systems in Vietnamese.
- ✓ **Research Intern** (04/2016 – 10/2016)**:** LITA, Univesity of Lorraine, France. Thesis: "*Machine learning techniques for Autonomous Surface Vessels*". Conduct research on long-term autonomy and data acquisition for environmental monitoring using Reinforcement learning, robotics control techniques on unmanned surface vehicle.

SKILLS HIGHLIGHTS

- ✓ Machine learning, Data Processing, NLP Techniques, LLMs, Robotics (ROS)
- ✓ Full-stack Web (Django, Bootstrap, RestfulAPI, Cloud services)

- ✓ Programming languages: Python, Matlab, C/C++
- ✓ Tools: Pytorch/Tensorflow, Sklearn, Pandas, Matplotlib, OpenCV
- ✓ MySQL/MSSQL, Linux/Bash, Windows/MacOS
- ✓ Agile Development, Git Flow, Docker, Prompt Engineering
- ✓ Independent Research, Problem Solving, Continuous Learning

PROJECTS

- ✓ **DCASOLVERS** in LGIPM (2023): As Tech Leader, I drive technical direction, specializing in website development and optimization algorithms (DCA). I tackle complex challenges hands-on and foster innovation. Technologies: Python, Django, Bootstrap, Git, RestfulAPI, Cloud deployment, MySQL, Linux
- ✓ **Drone Allocation** for NAVAL Group, France in LGIPM (2022): Collaborative project with Univ. of Lorraine and Naval Group optimizing drone flight paths. Created Python-based simulation environment. Technologies: Robotics, Python (OOP), Pygame
- ✓ **Robot Navigation** for NAVAL Group, France in LGIPM (2020): Research project with Univ. of Lorraine and Naval Group on ground robot path optimization. Technologies: Robotics, Computer vision, YOLO, Python, C++, Docker, Linux, ROS, Gazebo, SLAM, Path planning
- ✓ **Iris Recognition & Tracking** in NAL (2018): Join a project to track Internet Japanese user behavior using iris recognition. Utilized Computer Vision and YOLO to track iris movements on mobile devices. Technologies: Computer Vision, YOLO, Python, Agile management
- ✓ **Facial Recognition Access Control** (2018): Automated check-in and timekeeping for internal use in Nal Vietnam company. Technologies: Deep learning, Few-shot learning, Computer vision, RestAPI, Linux, Agile Dev
- ✓ **Sentiment Analysis for Social Risk** in NAL (2017): Led outsourcing project for Japanese client. Developed sentiment classification using ML and DL. Technologies: Deep learning, Python, RestAPI, Flask, Agile management
- ✓ **Customer Service Chatbot** in NAL (2017): Automated Customer Service Rep for Thai Minh Group. Utilized machine learning and Text-To-Speech. Technologies: Deep learning, Text-to-Speech, Python, RestfulAPI, Flask, Linux, Docker, Agile management
- ✓ **Search-based NLP** in Otonhanh.vn (2016): Contributed to automobile search platform using ML, NLP, and computer vision. Crafted accurate NLP algorithms for text classification and sentiment analysis. Technologies: ML, DL, Python, pandas, scikit-learn

PUBLICATIONS

- ✓ Pham, V.T., Luu, H.P.H., Le Thi, H.A. (2022). *A Block Coordinate DCA Approach for Large-Scale Kernel SVM*. In: Nguyen, N.T., Manolopoulos, Y., Chbeir, R., Kozierkiewicz, A., Trawiński, B. (eds) Computational Collective Intelligence. ICCCI 2022. Lecture Notes in Computer Science(), vol 13501. Springer, Cham.
- ✓ Pham, V.T., Le Thi, H.A., Luu, H.P.H., Damel, P. (2023). *DCA-Based Weighted Bagging: A New Ensemble Learning Approach.* In: Nguyen, N.T., et al. Intelligent Information and Database Systems. ACIIDS 2023. Lecture Notes in Computer Science(), vol 13996. Springer, Singapore.
- ✓ Pham, V.T., Le Thi, H.A. and Pascal, D., 2023, *Cost-sensitive weighted bagging DCA based method for imbalanced financial data*. Submitted, **Submmited** In: Proceedings of the 4th International Conference and Summer School on Numerical Computations NUMTA.

LANGUAGES

- ✓ **English:** Professional working proficiency **French:** Basic proficiency **Vietnamese**: Native

HOBBIES

- ✓ Running/Football ✓ Reading and Learning ✓Taking care of family