

# PHAM Van Tuan

**Ph.D. in Machine Learning, Data Science, NLP**

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## PERSONAL INFORMATION

Full name : PHAM VAN TUAN  
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## DOMAIN

- ✓ Machine Learning, Artificial Intelligence
- ✓ Data science, Natural Language Processing
- ✓ Web design

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## EDUCATIONS

- ✓ PhD of Computer science (2020-2023), University of Lorraine, France
- ✓ Master II of Information and Communication Technology, University of Lorraine, France (2015-2016)
- ✓ Master I of Information and Communication Technology, University of Science and Technology of Hanoi, Vietnam (2014-2015) (France and Vietnam co-accredited)
- ✓ Bachelor of Management Information Systems (2008-2012), National Economics University

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## WORK EXPERIENCES AND PROJECTS

- ✓ **PhD candidate** (10/2020 to 12/2023): University of Lorraine. Thesis: "New Machine Learning Techniques for Finance and Healthcare," supervised by Prof. Hoai An Le Thi and Prof. Pascal Damel, University of Lorraine.
- ✓ **University Lecturer** (08/2012 to 10/2020): National Economics University, Vietnam. Teaching subjects: Fundamental Computer Science, Applied Informatics, Management Information Systems. Conducting research in the domain of Artificial Intelligence.
- ✓ **Data Engineer and Web Developer** (08/2019 to 12/2019): VinTech Group, Vietnam. Engaged in the implementation of an AI-based Logistics system (web) with Django, Bootstrap, GoogleMap APIs.
- ✓ **Machine Learning Engineer** (11/2017 to 07/2019): NAL Jsc. Vietnam. Worked in a young and passionate team in the domain of Artificial Intelligence, built AI based applications for various outsourcing projects such as Operator Chatbot, Text-to-Speech for Vietnamese, Face Recognition for door lock system, Dialog System, and Social Sentiment Analysis.

- ✓ **Machine Learning Engineer** (10/2016 to 10/2017): Chappiebot Inc., Vietnam. Developed clever algorithms and pragmatic solutions for an AI-Based Car Search System: Named Entity Recognition, Topics classifiers, Sentiment Analysis applications, and Dialogue Systems in Vietnamese.

#### RESEARCH PROJECTS:

- ✓ **Research project:** (10/2019 - 07/2020): "*Robot navigation*", LGIPM, University of Lorraine. The objective of the project was to create a learning method for the automatic navigation of a terrestrial robot.
- ✓ **Research Internship** (04/2016 - 10/2016): Theoretical and Applied Computer Science Lab (LITA), University of Lorraine, France. Subject: Machine learning techniques for Autonomous Surface Vessels. This project aimed to conduct research on long-term autonomy and data acquisition for environmental monitoring using machine learning techniques

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#### SKILLS HIGHLIGHTS

- ✓ Machine learning, Natural Language Processing techniques.
- ✓ Full-stack web developer (Django, HTML, CSS, Bootstrap, RestfulAPI, git, cloud services)
- ✓ Programming languages: Python, Matlab, C/C++
- ✓ Machine learning tools: Pytorch, Sklearn, Pandas, Matplotlib
- ✓ Databases: MySQL, MSSQL
- ✓ OS: Windows, Ubuntu, MacOS

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#### 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., Kozierekiewicz, A., Trawiński, B. (eds) Computational Collective Intelligence. ICCI 2022. Lecture Notes in Computer Science(), vol 13501. Springer, Cham. [https://doi.org/10.1007/978-3-031-16014-1\\_27](https://doi.org/10.1007/978-3-031-16014-1_27)
- ✓ 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. [https://doi.org/10.1007/978-981-99-5837-5\\_11](https://doi.org/10.1007/978-981-99-5837-5_11)
- ✓ Pham, V.T., Le Thi, H.A. and Pascal, D., 2023, *Cost-sensitive weighted bagging DCA based method for imbalanced financial data*. Submitted, **Submitted** In: Proceedings of the 4th International Conference and Summer School on Numerical Computations: Theory and Algorithms NUMTA

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#### LANGUAGES

- ✓ **English:** Professional working proficiency
- ✓ **French:** Elementary