

Duc Thang NGUYEN

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| CONTACT INFORMATION | Apt 4115, 15 avenue du Colonel Roche, 31400 Toulouse, France | Cell: +33615-664-476 Email: thangdn.tlu@gmail.com Site: thangdn.com , in/thangdnsf Github: github.com/thangdnsf |
| GOAL | Seeking a full-time position/ Ph.D program in Machine learning/ Deep learning or Data-mining. | |
| RESEARCH INTERESTS | My principal research interests in the field of machine learning, deep learning, data mining, mathematical and statistical modeling as well as optimization techniques. | |
| WORK EXPERIENCE | Apprenticeship Internship Part-time ML DevOps engineer, network security manager Torus Actions SAS, Toulouse, France Lecturer Computer science, Thang Long university | Sept 2020 to present Jun 2020 to Sept 2020 Sept 2019 to Jun 2020 Aug 2017 to Aug 2019 |
| EDUCATION | Paul Sabatier University , Toulouse, France Master, Computer Science for Aerospace Thang Long University , Hanoi, Vietnam B.Sc., Computer science - GPA: 3.6/4, Rank: 2/232 | Sept 2019 to present Aug 2013 to Sep 2017 |
| RESEARCH EXPERIENCE | R&D Deep learning in medical analysis, ThangLong MedAI Brain, Chairman: Phuong Hoang Nguyen, Professor Researcher Mining of Massive Datasets, Thang Long University Chairman: Tran Vinh Duc, Ph.D | Aug 2017 to Sept 2019 Sep 2016 to March 2017 |
| PUBLICATIONS | Articles <ol style="list-style-type: none">1. Tat Dat, T.; Frédéric, P.; Hang, N.T.T.; Jules, M.; Duc Thang, N.; Piffault, C.; Willy, R.; Susely, F.; Lê, H.V.; Tuschmann, W.; Tien Zung, N. Epidemic Dynamics via Wavelet Theory and Machine Learning with Applications to Covid-19. <i>Biology</i> 2020, 9, 477.2. My Hanh Bui, . . . , Thang, Nguyen Duc, et al. "Deep Neural Networks for Mammograms Classification for Breast Cancer Screening", AICI 2021 (accepted).3. Thang, Nguyen Duc, et al. "Building a X-ray Database for Mammography on Vietnamese Patients and automatic Detecting ROI Using Mask-RCNN." <i>Soft Computing for Biomedical Applications and Related Topics</i>. Springer, Cham 315-329. | |

4. [Duc-Thang Nguyen et al](#) (May 2020). An overview of traumatic brain injury identification and treatment approaches using data mining, RISUR2020.
5. [Duc-Thang Nguyen, Tran.V.Duc](#) (Dec 2015). Generate large prime numbers for RSA encryption algorithm, *ThangLong University*.

Thesies/final projects

1. [Duc-Thang Nguyen, Clement Poull](#) (Dec 2019). Audio command recognition by DTW and classification methods.
2. [Duc-Thang Nguyen](#) (2017). Community structure detection in large-scale networks. *ThangLong University*

CERTIFICATES AND AWARDS

Awards

- 2019: 3rd prize the francophone start-up contest 2019: The anti-fraud solution in the study, examination and violence School using AI.
- 2019: Math-AI Toulouse scholarship: 10,000\$ per year.
- 2016: Thang Long University Merit scholarship: 500\$

Certificates

- 2018: Deep learning specifications, Andrew Ng, Coursera.
- 2018: Mathematics for Machine Learning specifications, Coursera.
- 2017-2018: Co-coach in ACM-ICPC Contest for TLU teams
- 2016: Certificate of completion of summer school about data mining, VNU-UET.
- 2016: Machine learning, Andrew Ng, Coursera.

PROJECT

ML DevOps engineer

Sept 2019 to Now

Facial recognition
Building detection
Covid19 - Epidemic model
Skin products: [Skin cancer](#), [Skin disease](#), [Acne](#), [Psoriasis](#).
Nuclei segmentation and classification

Student advisor and researcher

Dec 2018 to May 2019

[Automatic student attendance using face recognition](#)
Thang Long University

R&D

2018 to Aug 2019

Deep Learning Project for Breast Cancer Screening in Vietnamese women
Thang Long University and Hanoi Medical University Hospital

TECHNICAL SKILLS

- *Main programming languages*: Python, Javascript, C/C++.
- *Technical softwares*: Tensorflow, Pytorch, Flask, Apache Spark, Apache Hadoop.
- *OSs*: MacOS, Linux, Windows.
- *Other*: TPU, GPU, Firewall, Network management, VPN, Synology NAS.

REFERENCES

[Nguyen Tien Zung](#), Professor, Institut de Mathématiques de Toulouse
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