Dung Do Vu

NLP& DS

📋 17 March 1985

✉ 4-80, ave Hudson, Montreal, Quebec, Canada. H3R 1S6

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🌐 https://dungdovu.github.io/portfolio/
https://scholar.google.com/citations?user=cQHOUPoAAAAJ&hl=en&authuser=1

@ vudodung85@gmail.com

About me

I am a creative and critical thinking person, my passion is data mining & machine learning. I want to work in a global environment and create the useful products and services.

Skills

Machine learning, Deep learning

React, Redux, Java

R, Python, C&C++, Shell

Agile&Scrum, QA

Mining, Analysis, Visualization

MongoDB, Hive, SPSS, SQL

Window, Linux, Tex, Office, Git

Matlab, Tableu,

Pycharm, IntelliJ

Positive★3.5 Listening★3.5
Teamwork★4.5 Organization★4

Interests

- Artifical Intelligence: Reasoning, problem solving, natural language processing, Perception, motion and manipulation, neural network, deep learning.

- Machine learning: Supervised, unsupervised, and reinforcement learning

- Data Scientist: Predictive analytic, data mining, text analytic, and statistical analysis

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Experience

3/2018-4/2022 Researching on NLP at Lincs lab   Canada
Research the application for learning using Tensorflow, Opencv, Pycharm, Elmo, Torch, Spacy
- Natural Language Processing in a smart Dialog system
- PhD thesis: Natural Language Generation for ITS
Achievement:
- Obtained the fund from Mitacs and Korbit for 3 years (80K) with the project "Natural Language Generation for ITS"

7/2018-11/2021 Natural language generator at Korbit   Canada
Research the application of generating the Natural language for the Intelligence Tutor System
- Generate natural language contents (Hints, questions, answers)
- Create the API with Microservices for ML applications
- Work with platforms: Rasa, Elmo, Torch, Tensor-flow, Spacy, OpenAI
- Pre-process data: imbalance, unicode, symbol, math, etc.,
- Process data with CUDA, Multiple processors
- Work with AWS, Colab, Google cloud , notebook jupyter
Achievement:
- Published two conferences and one journal papers
- Run and analysis experiment with more than 1000 employee from FPT and integrate the hints to the system which help users' knowledge gain 43 %
- Became the coordinator of running pilot project with one of the biggest ICT company in Vietnam (FPT)
- Work with Korbit since It has only 5 members until now (much of achievement for innovation startup: CB Insights' AI 100, Korbit Technologies Raises almost 5M)

10/2017 -2/2018 Worked on Artificial Intelligence at Bibliomondo   Canada
Research Shazam Image project and Develop the User Interface of the Timesheet project.
- Research the application by using Python, and Android Studio, Webstorm, IntelliJ IDEA (e.g., Research the Object recognition and Hologram module)
- Create the language locale and UI module by using Reactjs, Momentjs, Redux-sagas at Timesheet project
Achievement:
- Created the prototype of Object Recognition and Hologram module
- Finished the Timesheet project with only 1 member (the project managed the time of user working with both languages French and English)
Problem: Project fund (60K) suspension after a few months caused prototype product

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10/2016 -6/2017 Worked on Civil Infrastructure Platform at Renesas   Vietnam

Apply OS patches and upgrades on a regular basis. Configure/add new services as necessary and maintain a big system based on big data analysis.

- Upgrade and configure system software that supports infrastructure applications or Asset Management applications per project or operational needs (Yocto, bash shell))
- Perform ongoing performance tuning, hardware upgrades, and resource optimization as required

Achievement:

- Lead a internal team with 5 members to auto checking and updating the patch files for CIP platform based on Yocto, bash shell for Renesas Japan
- Lead a team with 20 outsourcing members from FPT for testing the CIP
- Maintain the kernel 4.4.1

3/2015 8/-2016 Worked on crawling data from social network such as Twitter at Dankook University   Korea

Working on creating Machine learning model, making the insightful and supervised application.

- Develop the social media analysis applications (e.g., GeoSocial-Boundary, Detetecting human, spammer, and bot on the social network, sentiment analysis) by using R program.
- Develop IoT applications (e.g., Demo of smart home, smart car; Object tracing and detecting; lane detection applications)

Achievement:

- Published two international conference and one journal papers
- Obtained fund from Brain Korea 21+ (22K), NRF (30K), MSIP (6K).
- Lead a team with 5 members to develop the demo of smart home, smart car, object tracing and lane detection with Raspberry Pi II

2012-2014 Worked on Intelligent Transportation System (ITS) at Hanoi University of Science and Technology.   Vietnam

Creating some applications for the ITS: (Automatically detect and trace a vehicle in the real time)

Achievement:

- Researched, Designed and Integrated the RFID antenna prototype to the vehicle for identification in ITS .

Problem: Project fund (15K) suspension caused prototype product

2009-2012 Worked on internal information technology audit at Tien Phong Bank. Vietnam

Manage the IT risk and create the security information technology internal audit campaign:

- Create the risk table of information technology in the bank and the attack campaign to the core network.
- Lead the information internal audit strategy in both Head-end and branch site office.

Achievement:

- Predict, detect, and prevent the potential risk (e.g., practical attack Data Recovery Sites, Recheck the verification and authorization policy), in the core banking which helped the system avoid to lose much money (almost 10M)
- Lead team (5 members) of developing Controller Internal Audit platform (build the library risks, matching the procedure and risks, monitor the progress working of auditor, make the plan and generate the management report)

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Publications

2021 F.St-Hilaire, N. Burns, R. Belfer, M. Shayan, A. Smofsky, I. V. Serban, E. Kochmar and D. D. Vu, A Comparative Study of Learning Outcomes for Online Learning Platforms, AIED 2021, accepted

2020 Ekaterina Kochmar, D. D. Vu, Robert Belfer, Varun Gupta, Iulian Vlad Serban, Joelle Pineau,Automated Data-Driven Generation of Personalized Pedagogical Interventions in Intelligent Tutoring Systems International Journal of Artificial Intelligence in Education, was accepted at IJAIED

2020 Cong Tran, D. D. Vu, and Won-Yong Shin, "An Improved Approach for Estimating Social POI Boundaries With Textual Attributes on Social Media", in Knowledge-Based Systems. 2020 https://www.sciencedirect.com/science/article/pii/S095070512030839X?utm_campaign=STMJ_AUTH_SERV_PUBLISHED&utm_medium=email&utm_acid=149362166&SIS_ID=&dgcid=STMJ_AUTH_SERV_PUBLISHED&CMX_ID=&utm_in=DM110556&utm_source=AC_

2020 Ekaterina Kochmar, D. D. Vu, Robert Belfer, Varun Gupta, Iulian Vlad Serban, Joelle Pineau, "Automated Personalized Feedback ImprovesLearning Gains in an Intelligent Tutoring System", in Artificial Intelligence Education 2020 https://link.springer.com/chapter/10.1007/978-3-030-52240-7_26

2020 Iulian Vlad Serban, Varun Gupta, Ekaterina Kochmar, D. D. Vu, Robert Belfer,Joelle Pineau,Aaron Courville,Laurent Charlin,Yoshua Bengio, "Korbit: A Large-Scale, Open-Domain,Mixed-Interface Dialogue-Based ITS for STEM", in Artificial Intelligence Education 2020 https://link.springer.com/chapter/10.1007/978-3-030-52240-7_70

2017 D. D. Vu and G. Kaddoum, "A Smart Waste City Management System for Smart Cities Applications," in Advances in Wireless and Optical Communications, Riga, Lativa, Nov. 2017 https://ieeexplore.ieee.org/document/8228538/

2017 W.-Y. Shin* and D. D. Vu, "Density-based estimation of POI boundaries using geo-tagged tweets," Journal of KICS, vol. 42, no. 2, pp. 453-459, February 2017.http://koreascience.or.kr/article/ArticleFullRecord.jsp?cn=GCSHCI_2017_v42n2_453

2016 D. D. Vu, H. To, W.-Y. Shin, and C. Shahabi, "GeoSocialBound: An efficient framework for estimating social POI boundaries using spatio-textual information," in Proceedings of the International ACM SIGMOD Workshop on Managing and Mining Enriched Geo-Spatio Data (GeoRich), San Francisco, CA, June 2016.https://dl.acm.org/citation.cfm?id=2948652

2016 D. D. Vu and W.-Y. Shin, "SocialGeoFence: Detection of POI boundaries using spatio-textual information," in Proceedings of KICS Winter Conference, JeongSeon, Korea, January 2016, pp. 418-419.

2015 D. D. Vu and W.-Y. Shin, "Low-complexity detection of POI boundaries using geo-tagged tweets: A geographic proximity based approach," in Proceedings of the ACM SIGSPATIAL International Workshop on Location-Based Social Netwroks (LBSN), Bellevue, WA, November 2015.https://dl.acm.org/citation.cfm?id=2830663

2015 D. D. Vu and W.-Y. Shin, "Google Maps meet Twitter for location-based services," in Proceedings of CITW, Seoul, Korea, October 2015.

2015 D. D. Vu and W.-Y. Shin, "Detection of POI boundaries using geo-tagged tweets," in Proceedings of the Korean Institute of Communications and Information Sciences (KICS) Summer Conference, Jeju Island, Korea, June 2015, pp. 453-454 http://www.dbpia.co.kr/Journal/ArticleDetail/NODE06388861

Revised/Submitted/In preparation

2020 D. D. Vu and Sylvie Ratte, "When to intervene: Detection abnormal concept based on human debate conversation of a given topic.", revised

2020 D. D. Vu and Sylvie Ratte, "Automated Question and Answer Generation of Hint Interventions in Intelligent Tutoring Systems", in preparation

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Scholarship

2018	Mathematics of Information Technology and Complex Systems (Mitacs) : Fund for Basic Science Research Program in collaboration with industrial partner.
2016	National Research Foundation of Korea (NRF) and Ministry of Science, ICT& Future Planning (MSIP) : Fund for Basic Science Research Program.
2015	Brain Korea 21+ Program.
2009	Samsung Electronic Vietnam Scholarship for the Excellent 5th Year-Student of HanoiUniversity Of Sience and Technology .
2008	Panasonic Scholarship : Pannasonic-Sponsored Class For Embedded Sofware Development .
2004	Hanoi University Of Sience and Technolog scholarship: Scholarship for Excellent Student From 2004 to 2009 .

Education

March, 2018	Ph.D. candidate in Ecole de technologie superieure Natural Language Generation for Intelligent Tutoring System	Canada
2015-2016	(course) Ph.D. student in Dankook University Big data in the social network	Korea
2012-2014	M.Sc. Hanoi University Of Science and Technology Application in Intelligent Transportation System	Vietnam
2009-2012	MBA. Hanoi University Of Science and Technology Improve the Internal Audit process at Tien Phong Bank	Vietnam
2004-2009	Hanoi University Of Sience and Technology The vehicle tracking system by using GSM and GPS.	Vietnam

Social activities

- Volunteer of PMÉI - GRAND RDV des étudiants internationaux, 2017
- Co-founder Vietnamese Technology (Viettech) Community in Montreal, Canada, 2019
- Data science Mentor of MacHacks, 2021

Social Contributions

2012-2014	Prize for people who has many contributions in the E-learning: Topica and ThanhGiong of Knowledge.
2018	Work with Korbit Inc which was one of top watching out startup in Canada 2020 with 5 persons and found by 2017 https://betakit.com/canada-sees-improvement-from-2019-as-eight-canadian-startups-appear-on-cb-insights-ai-100
2020	Korbit is one of the winners of enlightED Awards 2020 https://www.enlighted.education/EN/enlighted-awards
2020	Was nominated for the Mitacs award 2020

Hobbies

- Commitment: Set the goal, approach the goal with an enthusiasm attitude
- Sport: Table tennis, Gym
- Music: Pop, R&B
- Communication: Community activities
- Reading: Books and news on the internet