Dung Do Vu

17 March 1985

2425, rue Joliette, Montreal, Quebec, Canada. H1W 3G7

+1 514 813 6660

https://dungdovu.github.io/portfolio/

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 Management⋆4.5 Training⋆4.5

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Interests

- Artifical Intelligence: Reasoning, problem solving, natural language processing, Perception, motion and manipulation, neural network, deep learning.
- Machine learning: Supervised, unsupervised, and reinforcement learning
- Big data analytic: Predictive analytic, data mining, text analytic, and statistical analysis

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Experience

7/2018-now   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
- Pre-process data: imbalance, unicode, symbol, math, etc.,
- Process data with CUDA, Multiple processors
- Work with AWS, Colab, Google cloud , notebook jupyter

3/2018-now   Working on Artificial Intelligence at Lincs lab   *Canada*
Research the application for learning disability using Tensorflow, Opencv, Pycharm, DeepLearn.js, OpenAI, ConvNetJS, APIs
- Natural Language Processing in a smart Dialog system
- PhD thesis: Natural Language Generation for ITS

10/2017 -2/2018   Working 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

2016   Working on Civil Infrastruture Platform   *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

2015   Working on crawling data from social network such as Twitter   *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)

2012-2014   Working on Intelligent Transportation System (ITS) at HUST.   *Vietnam*
Creating some applications for the ITS: (Automatically detect and trace a vehicle in the real time)

2009-2012   Working 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.

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Matlab, Tableu,

Pycharm, IntelliJ

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

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Publications

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 Coomunications, 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

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	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 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	Canada
	Natural Language Generation for Intelligent Tutoring System	
2015-2016	(course) Ph.D. student in Dankook University	Korea
	Big data in the social network	
2012-2014	M.Sc. Hanoi University Of Science and Technology	Vietnam
	Application in Intelligent Transportation System	
2004-2009	Hanoi University Of Sience and Technology	Vietnam
	The vehicle tracking system by using GSM and GPS.	

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