

HOANG-THONG VO

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RESEARCH INTERESTS

My current research interests focus on three topics: intelligent transportation systems, smart mobility, and computer vision for smart cities.

EDUCATION

- **VNUHCM - University of Information Technology** *Aug 2018 - Aug 2022 (Expected)*
Bachelor of Science, major: Data Science, in-major GPA: 8.76/10.00 (3rd year - 5th Semester)
Coursework: Statistical Machine Learning, Deep Learning, Optimization and Applications, Data Analysis and Visualization, Experimental Design Analysis, Data Collection and Preprocessing, Data Structure and Algorithm, Object Oriented Programming, Probability and Statistics
- **Le Quy Don Khanh Hoa High School for the Gifted** *Aug 2015 - May 2018*
High school education, class of Informatics

WORK EXPERIENCE

- **Spring Knowledge Global Joint Stock Company** Apr 2021 - Oct 2021
Data Scientist
 - Collected and built a dataset to train model using **Labelimg open source** and **Roboflow app**
 - Researched and developed a model to tackle the small object like QR-code in object detection using **Tensorflow** and **Pytorch** framework
 - Deployed PyTorch model on Android app with **Tensorflow Lite**
- **Officience** Aug - Oct 2020
Machine Learning Engineer
 - Crawled, optimized crawling process and pre-processed data from 5 real estate sites by **Scrapy**, **beautifulsoup4**, **lxml**
 - Performed **Bash script** that automatically inserts raw data into databases
 - Cleaned and wrangled raw data on a database using **Pandas**
 - Visualized data using **Matplotlib**, **Seaborn** and **PySpark**

RESEARCH EXPERIENCE

- **Information Systems Laboratory - University of Information Technology** Jul 2020 - Current
Research Assistant
 - Supervisor: Dr. Trong-Hop Do
 - Research on Visible Light Communication, Vehicle Communication and Sensing, and Optical Camera Communication

PUBLICATIONS

- **Hoang-Thong Vo**, Ngan-Linh Nguyen, Thien-Long Nguyen, Dinh-Tu Vo, and Trong-Hop Do, “Xây Dựng Bộ Dữ Liệu UIT-DET Cho Hệ Thống Giám Sát Giao Thông Trong Thành Phố Thông Minh”, 2021 10th CITA National Conference on Information Technology and Its Applications
- Trong-Hop Do, Ngan-Linh Nguyen, **Hoang-Thong Vo**, Thanh-Binh Nguyen and N. Tan Vu Khanh, "Deep learning based image processing for proactive data collecting system for autonomous vehicle," 2021 21st ACIS International Winter Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD-Winter), 2021, pp. 253-256, doi: 10.1109/SNPDWinter52325.2021.00062.

HONORS AND AWARDS

- **Potential idea prize for AI Challenge 2021** *Dec 2021*
The competition has a global scale organized by the Department of Information and Communications of Ho Chi Minh City. The theme of the annual AI contest is "Recognizing Vietnamese words in outdoor photos and daily activities". In this competition, the goal is to detect and recognize text in images, specifically will focus on the text in the scene text recorded from many camera sources in Vietnam. Details about the competition: [Here](#).
- **The title of "Advanced youth following Uncle Ho's word" was honored by the Executive Board of the University of Information Technology** *Dec 2021*
The title of "advanced youth following Uncle Ho's word" is awarded to students who have achieved excellent results in the fields of learning, creativity, scientific research, culture, art, sports, community activities, and integration action. The condition that students receive awards is to win prizes in competitions from the head level and above. Details about the title: [Here](#).
- **Certificate of Merit from the President of Vietnam National University, Ho Chi Minh City** *Nov 2021*
Certificate of Merit for students with articles published in prestigious international journal ISI.
- **Principal's certificate of merit for students with good achievements in scientific research** *Sep 2021*
Certificate of Merit from the Rector awarded to students who have scientific research articles in international conferences and prestigious journals. Result about the certification: [Here](#).
- **Third prize and creative idea award in AI Tempo Run 2021 competition** *Aug 2021*
The competition requires solving the problem of detecting Vietnamese words in pictures of outdoor scenes and daily activities. The contest is open to all students of the University of Information Technology, organized by the Faculty of Computer Science, University of Information Technology, VNU-HCM. Details about the competition: [Here](#).
- **Honor prize in Provincial Informatics Olympiad for High School Students** *Jul 2017*
Competed individually in 1 days to solve 6 data structures and algorithms problems in 3 hours.
- **Honor prize in Provincial Informatics Olympiad for High School Students** *Nov 2016*
The competition for gifted high school students in computer science across the province, organized by the Khanh Hoa Department of Education and Training. Candidates competed individually in 2 days to solve 3 data structures and algorithms problems in 3 hours on each day.
- **Gold medal in 30/4 Informatics Olympiad for Vietnam Southern High School Students** *Apr 2016*
Candidates competed individually in 1 day to solve 3 data structures and algorithms problems in 3 hours.

LANGUAGES

- Vietnamese: Mother tongue
- English: Reading, Writing: Intermediate; Listening, Speaking: Basic

TECHNICAL SKILLS

- **Programming Language:** Python, C/C++, Bash script, SQL (Postgre), R
- **Machine Learning Algorithms:**
 - Supervised: Regression (Linear, Logistic), Memory Instance-based (k-Nearest Neighbor), SVM, Decision Tree (CART), Ensemble (Bagging, Random Forest, Boosting), Naive Bayes
 - Unsupervised: Clustering (K-Means), Linear Dimensionality Reduction (PCA, LDA)
- **Deep Learning Frameworks:** Scikit-learn, Keras, Tensorflow
- **Web Scraping Frameworks Proficient:** Scrapy, Request, BeautifulSoup, lxml
- **Data Analysis and Visualization Frameworks:** Pandas/Dask/Ray/Modin, Matplotlib/Seaborn, Scipy, Numpy
- **Version Control Proficiency:** Git, Github
- **Document Creation:** Microsoft Office Suite, LaTeX, Markdown

CERTIFICATIONS

- Computer Vision Basics - Coursera
- Fundamentals of Visualization with Tableau - Coursera

REFEREES

Dr. Trong-Hop Do	Senior Researcher at Faculty of Information Science and Engineering, University of Information Technology, Vietnam National University Ho Chi Minh City hopdt@uit.edu.vn
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