Giang DO (JAMES)

Portfolio: linkedin.com/in/giang-do-hust/ Github: github.com/giangdip2410

Education

The University of Tennessee at Chattanooga	TN, United States
• The University of Tennessee at Chattanooga • Master of Computer Science; GPA: 4.0/4.0 (Class rank 1st)	Jan 2023 - Dec 2024
Courses: Mathematical Statistics, Introduction to Machine Learning, Advanced Topics in Systems Software	2
VNU University of Science	Hanoi, Vietnam
• Master of Data Science; GPA: 3.75/4.0 (Class rank 2nd)	Dec 2020 - Dec 2022
Courses: Statistical Modeling, Analysis Of Algorithms, Mining Big Dataset, Machine Learning, Advanced	Machine Learning
Hanoi University of Science & Technology	Hanoi, Vietnam
Bachelor of Technology - Information Technology; GPA: 3.36/4.0 (Rank top 7%)	Aug 2019 - June 2021
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Lean	rning, Networking, Databases
Hanoi Foreign Trade University	Hanoi, Vietnam
• Bachelor of International Business Economics; Degree classification: Good	Aug 2010 - June 2014
Projects	

• CV - Building Smart Parking System with License plate recognition model and Face identity recognition (Collaborate Linh T. Dang, Ph.D. HUST Computer Vision Lab): Building a smart system which is applied deep learning models to recognize Licence plate and Face identity recognition. Tech: Python, OpenCV, Pytorch, Python (July '20)

- ML Building machine learning models to predict building energy consumption: Building machine learning models to predict building energy consumption from a dataset ASHRAE Great Energy Predictor III. Tech: Sklearn, Pyspark, Tensorflow, LightGBM, XGBoost, CatBoost (Oct '21)
- ML Framingham Heart Study: Building Statistical models & machine learning models to predict the incidence and prevalence of cardiovascular disease. Tech: R, Python, Caret, Sklearn, H2O, XGBoost, LightGBM, CatBoost (May '21)
- NLP US Goverors' COVID-19 Tweets Classification (Collaborate with Hong Vu, Ph.D. University of Kansas): Building a dataset and NLP models to classify US governors' tweets about Covid-19 . Tech: Python, BERT, NLTK, Word2Vec, GloVe, Pytorch (December '20)
- NLP Identifying Constructive Comments in English & Vietnamese (Collaborate with Tuan-Anh Hoang, Ph.D. VNU University of Science): Building a dataset for Vietnam Constructive Comments, Researching Machine Learning & Deep learning models to identify constructive comments for English (F1-score 93%) & Vietnamese (F1-score 87%). Tech: Python, NLTK, GloVe, Transformers, Tensorflow. (December '21)

EXPERIENCE

Center for Urban Informatics and Progress, UTC

Research Assistant

- Data Fusion Project: Research SOTA deep learning model for 2D Object Detection and 3D Object Detection & new techniques to utilize both camera and LiDAR data to enhance deep learning model performances.
- Large Language Models: Research Hypernetworks and Sparse Mixture-of-Experts to enhance large language models such as Transformer-XL or RoBERTa. First author of the paper "HyperRouter: Towards Efficient Training and Inference of Sparse Mixture of Experts" which was submitted to EMNLP2023.

Panasonic R&D Center Vietnam

Artificial Intelligence Project Leader

- **Digital Twin Project**: As a Project leader, guiding & managing a team with 4 developers to build a system for modeling and monitoring buildings.
- 3D BIM & 3D Unity Construction: As a Technical leader, proposing solutions and guiding team members to develop an application to construct 3D BIM & 3D Unity.
- **3D** Object Detection: Training and fine-tuning SOTA 3D Object detection models which have an accuracy rate +5% higher than pre-trained models.
- **Ceiling Light Recognition**: Proposing and implementing Unsupervised Learning Approach to recognize ceiling light from point cloud which achieved more than 90% accuracy.
- Semantic 3D Mapping: Proposing and implementing algorithm to map 2D Image Instance Segmentation to 3D modeling.

Vietnam Technological and Commercial Joint Stock Bank

- Senior Data Scientist
 - **Business Monitoring**: Building automatic reports and dashboards for daily business monitoring and tracking using SQL Server, Power BI and MS Report Builder.
 - **Business Enhancement**: Building Machine Learning systems to suggest prices for customers to sell or buy bonds helping customers to buy and sell bond/stock more easily.
 - $\circ~$ Business Operation: Building Machine Learning models to detect abnormal logins and abnormal trading.

Toyota Motor Vietnam

Data Analyst

- Business Monitoring: Building daily, monthly and yearly market sales and forecasting reports for TOP Managements.
- **Business Enhancement**: Building time series models to forecast sales and reporting to TOP Managements for their decisions making in production and marketing strategy.

Feb 2021 - Jan 2023

Hanoi, VN

TN, United States

Jan 2023 - present

Hanoi, VN Oct 2019 - Jan 2021

Hanoi, VN

Jan 2016 - Jul 2019

Honors and Awards

- The best master thesis with topic "Identify Constructive Comments for Vietnamese News" Dec, 2022
- The best employee award, Panasonic R&D Vietnam Jul, 2022
- The best project award, Panasonic R&D Vietnam Dec, 2021
- The best graduation thesis with topic "Constructive Comment Classification" Jun, 2021
- Vingroup Science and Technology Scholarship for master data science students 2021-2022

Skills Summary

• Languages:	Python, R, SQL, MATLAB, JAVA, Bash
• Frameworks:	Scikit-learn, Pytorch, TensorFlow, H2O, Keras, NLTK, Pandas, Numpy, Flask, Huggingface, Streamlit
• Tools:	Power BI, Docker, GIT, Neo4j, MySQL, SQLite
• Platforms:	Linux, Windows, Kaggle, Colab, Azure, GCP
• Soft Skills:	Leadership, Event Management, Writing, Public Speaking, Time Management
Reference	

Assoc. Prof. Dr. Nguyen Thi Minh Huyen Head of Department, Faculty of Mathematics, Mechanics & Informatics Vietnam National University, Hanoi (VNU) ⊠ huyenntm@hus.edu.vn Dr. Nguyen Ba Ngoc Lecturer, Department of Computer Science Hanoi University of Science and Technology (HUST) ⊠ ngocnb@hust.edu.vn