Tan M. Dinh

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Education

Ho Chi Minh City University of Technology **September 2016 – November 2020**
Bachelor of Engineering in Honors Program - Computer Science *Ho Chi Minh, Vietnam*

- GPA: 8.98/10 (Very Good)
- Honors Program Ranking: 1
- Thesis: Text-to-Image Synthesis

Research Interests

- GAN Inversion and Applications including Face Reconstruction and Manipulation.
- Language and Vision Learning particularly on Text-to-Image Synthesis.

Research and Work Experience

Zalo - VNG **April 2019 – January 2020**
Data Scientist Collaborator *Ho Chi Minh, Vietnam*

- Working on anonymous user information extraction from Zalo's products.
- Familiar with some techniques to deal with tabular data.

VinAI Research **April 2020 – Present**
AI Residency Program *Ho Chi Minh, Vietnam*

- Supervisor: Dr. Binh-Son Hua, Dr. Rang Nguyen, Dr. Anh Tran
- Take some fundamental courses: Deep Learning for Computer Vision, Linear Algebra, Probability and Statistic.
- Conducting research on: GAN-inversion and applications such as real face reconstruction and manipulation; language and vision learning such as text-to-image synthesis.

Publications

TISE: A Toolbox for Text-to-Image Synthesis Evaluation
arxiv pre-print, 2021 — [paper / project page]
Tan M. Dinh, Rang Nguyen, Binh-Son Hua **2021**

HyperInverter: Improving StyleGAN Inversion via Hypernetwork
arxiv pre-print, 2021 — [paper / project page]
Tan M. Dinh, Anh Tran, Rang Nguyen, Binh-Son Hua **2021**

Honors & Awards

Graduate Gold Medal **November 2020**
Awarding the student, who graduated with highest rank in the honors program by HCMUT.

Skills

Languages: Vietnamese (Native), English (Professional working proficiency)
Programming Languages: Python, C/C++, Java, JavaScript
ML Libraries/Frameworks: PyTorch, TensorFlow, Numpy, Scikit-learn, Pandas, Matplotlib, etc.
Operating Systems: Linux, MacOS
Other Tools: Git, Docker

CERTIFICATES

Deep Learning Specialization by DeepLearning.AI

* Neural Networks and Deep Learning
* Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
* Structuring Machine Learning Projects
* Convolutional Neural Networks

DeepLearning.AI TensorFlow Developer Professional Certificate

* Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
* Convolutional Neural Networks in TensorFlow

MISCELLANEOUS PROJECTS

pylearn_ml191
python, numpy, pandas — [Github]
An implementation of some classical machine learning algorithm from scratch: Linear/Logistic/Softmax Regression, Support Vector Machine (SVM), Principal Component Analysis (PCA), ID3 Decision Tree, Hidden Markov Model (HMM). **2019**

BKMessenger-Server
Java, JDBC, Multithread, MySQL — [Github]
An simple Java server for chat application using TCP/IP and UDP protocol. **2018**

BKMessenger-Client
React Native — [Github]
A mobile application for the simple chat application. **2018**

REFERENCES

Dr. Binh-Son Hua **Research Scientist, VinAI Research**
PhD. at National University of Singapore (NUS)

Dr. Anh Tran **Research Scientist, VinAI Research**
PhD. at University of Southern California (USC)

Dr. Rang Nguyen **Applied Research Scientist, VinAI Research**
PhD. at National University of Singapore (NUS)