HUY NGO

Github: ngoquanghuy99 | Portfolio: ngoquanghuy99.github.io

Linkedin: ngoquanghuy99 | Email: ngoquanghuy1999lp@gmail.com

Scholar: profile | Blog: Algorithms Coding

EDUCATION

- Computer Science, Posts and Telecommunications Institute of Technology (PTIT), 2017 - 2022

PUBLICATIONS

- **Ngo Quang Huy**, Tu Minh Phuong, and Ngo Xuan Bach. Autoencoding Language Model Based Ensemble Learning for Commonsense Validation and Explanation. paper
- **Ngo Quang Huy**, Nguyen Duc Manh Tuan, Nguyen Anh Duong, and Pham Quang Nhat Minh. AimeLaw at ALQAC 2021: Enriching Neural Network Models with Legal-Domain Knowledge. KSE 2021. paper

EXPERIENCE

Electronics Research Lab

Intern *Sep 2018 - Jan 2019*

- Implemented some Clustering methods on some popular public datasets
- Implemented Transfer Learning for image classification

PTIT Machine Learning and Applications Lab

Research Assistant (Director: Associate Prof. Ngo Xuan Bach, homepage) *Aug 2020 - present*

- Conducted experiments on Sequence Labeling tasks
- Conducted experiments on Text Classification tasks
- Proposed an ensemble method based on Autoencoding Language Model for the Commonsense Validation and Explanation task (outperforms the state-of-the-art result)

Aimesoft JSC

AI Research Engineer *Jan 2021 - present*

- Japanese GPT-3 (Engineer): Joined pretraining GPT-3, fine-tuned our GPT-3 on sentiment analysis, implemented customized text generation and created API
- Text To Speech (Tech Lead, Engineer): Created the whole Text-To-Speech platform of Aimesoft
- Automatic Speech Recognition (Tech Lead, Engineer): built ASR systems for Vietnamese, Japanese
- Voice Cloning (Tech Lead, Engineer): built a voice cloning system for Japanese
- Japanese Text Summarization (Tech Lead, Engineer): built and trained model, created API
- Toshiba ASR Toolkit (Engineer): Preprocessed data for Romanian and Hungarian to build acoustic models
- Sound Event Detection (Tech Lead, Engineer)
- Vietnamese Legal Processing: participated in the ALQAC 2021 workshop and won Task 2

TECHNICAL SKILLS

- **AI:** Natural Language Processing, LLMs, Speech Synthesis, Voice Cloning, Voice Conversion, Speech Recognition, Speech Processing, Deep Learning, Machine Learning
- **Deep Learning frameworks/tools/libraries:** Python, Numpy, Pandas, PyTorch, Tensorflow2/Keras, Scikit-learn, DeepSpeed, ONNX, Kaldi
- **Software Engineering**: FastAPI, Flask, Linux, Git, Docker
- **Cloud Computing**: Google Cloud Platform (GCP), Amazon Web Services (AWS)

CERTIFICATIONS

Deep Learning Specialization - DeepLearning.AI *Nov 2018 - present*

certificate

Natural Language Processing Specialization - DeepLearning.AI *Aug 2020 - present*

certificate

Natural Language Processing in Tensorflow - DeepLearning.AI *Jul 2020 - present*

certificate

ACTIVITIES AND AWARDS

- Best Presenation Award (KSE 2021, ALQAC). certificate
- First Prize in Task 2: Legal Textual Entailment (KSE 2021, ALQAC). certificate
- Second Prize in Task 3: Legal Question Answering (KSE 2021, ALQAC)
- Second Prize in Task 1: Legal Document Retrieval (KSE 2021, ALQAC)

OPEN-SOURCE/PERSONAL PROJECTS

- Contributor of Huggingface, state-of-the-art and largest open-source NLP library. One of my pull requests is to fix generating bad words error.
- My own blog about Data structures, Algorithms (2019). link
- Text Summarization using GPT-2 (2020). link
- Hidden Markov Model for POS Tagging (2020). link
- BiLSTM-CRF for POS Tagging (2020). link
- BERT for POS Tagging on social media text (2020). link

OTHER SKILLS

Languages English: advanced. Vietnamese: native.