# HUY NGO

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## EDUCATION

- Undergraduate student, Computer Science, Posts and Telecommunications Institute of Technology (PTIT), 2017 - present

## 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*

- Read, reported different methods/papers of Machine Learning, Optimization
- 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)
- Doing research on Community Question Answering

**Aimesoft JSC**

*AI Research Engineer* *Jan 2021 - present*

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

## TECHNICAL SKILLS

- **AI:** Natural Language Processing, Speech Synthesis, Speech Recognition, Speech Processing, Deep Learning, Machine Learning
- **Deep Learning frameworks/tools/libraries:** Python, Numpy, Pandas, PyTorch, Tensorflow2/Keras, Scikit-learn, DeepSpeed, ONNX
- **Software Engineering**: FastAPI, Flask, Linux, Git, Docker
- **Cloud Computing**: Google Cloud Platform

## 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 PROJECTS

- *Huggingface* contributor

## OTHER SKILLS

**Languages**  English: professional proficiency. Vietnamese: native.