

# 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.
- 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

## 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
- Learned basic knowledge of Machine Learning

### PTIT NLP group

Research Assistant (Director: Associate Prof. Ngo Xuan Bach, [homepage](#))

Aug 2020 - present

- Built models for Sequence Labeling tasks
- Built models for Text Classification task
- Proposed an ensemble method based on Autoencoding Language Model for the Commonsense Validation and Explanation task (outperformed the state-of-the-art result)
- Doing research on Community Question Answering

### Aimesoft JSC

AI Research Engineer

Jan 2021 - present

- Built T5 model for Japanese Text Summarization
- Implemented various methods for Japanese Text Summarization
- Doing research on a project that is related to Legal Text Processing

## TECHNICAL SKILLS

- AI:** Natural Language Processing, Deep Learning, Machine Learning
- Deep Learning frameworks/tools/libraries:** Python, Numpy, Pandas, PyTorch, Trax, Tensorflow2/Keras, Scikit-learn

## CERTIFICATIONS

Deep Learning Specialization - DeepLearning.AI

Nov 2018 - present

- Credential: [Link](#)

Natural Language Processing Specialization - DeepLearning.AI

Aug 2020 - present

- Credential: [Link](#)

Natural Language Processing in Tensorflow - DeepLearning.AI

Jul 2020 - present

- Credential: [Link](#)

## ACTIVITIES AND AWARDS

- KSE 2021 workshop ALQAC, First Prize in Task 2: Legal Textual Entailment

## PROJECTS

Personal

### BiLSTM-CRF for POS Tagging

Oct 2020

- Github: <https://github.com/ngoquanghuy99/POS-Tagging-BiLSTM-CRF>
- Trained a model for a POS tagger that tries to mark up a word in a text as corresponding to a specific part-of-speech
- Implemented the BiLSTM-CRF model from the paper *Bidirectional LSTM-CRF Models for Sequence Tagging*
- The model reached 98.93% accuracy on word level on the Penn Treebank corpus (a benchmark corpus for English POS tagging, approximately 1 million tokens)
- Solution stack: Tensorflow 2/Keras

### Transformer for Abstractive Text Summarization

Dec 2020

- Github: <https://github.com/ngoquanghuy99/transformer-summarization>
- Trained a model that summarizes text from an given article
- Implemented GPT-2 from the paper *Language Models are Unsupervised Multitask Learners* and the Transformer from the paper *Attention Is All You Need*
- Solution stack: Trax, JAX

### BERT for social media text

Nov 2020

- Github: <https://github.com/ngoquanghuy99/BERT-social-media-text>
- Fine-tuned BERT-large model on a benchmark social media corpus (TweetNLP) for POS tagging task
- The model reached 84.13% accuracy on word level
- Solution stack: PyTorch

### Nevermore

Nov 2020

- Github: <https://github.com/ngoquanghuy99/nevermore>
- Built an NLP application to analyze texts from users (using Flask)
- Included some tasks: POS tagging, NER, Summarization, Sentiment analysis, Text Classification
- Solution stack: Flask

### Opensource projects

### Vietnamese NLP Progress

Nov 2020

- Github: <https://github.com/undertheseanlp/NLP-Vietnamese-progress>

## OTHER SKILLS

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