DO, Van Quyet

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Research Interests

I always want to apply what I learned to real life. Currently, I am interested in applying AI to various aspects of society, including mental healthcare and education, specifically using:

- Natural Language Processing (Commonsense Reasoning, Knowledge Graph, Dialogue and Language Generation)
- Machine Learning and Data Mining (Continual Learning with Expandable AI, Information Retrieval)

Education

- **M.Phil, Computer Science and Engineering** Aug 2022 - Present
  Hong Kong University of Science and Technology (HKUST)
  Specialization: Natural Language Processing, Data Mining
  CGA:

- **B.Sc, Data Science and Pure Math (Advanced)** Aug 2018 - Jun 2022
  Hong Kong University of Science and Technology (HKUST)
  CGA: 3.996/4.3 as of Graduation
  First Class Honors with Academic Achievement Medal

Experience

- **Software Engineer Assistant** Jun 2022 - Aug 2022
  Eureka FinTech Limited, Hong Kong
  - Work on the core (NLP) engine, including Data Crawling and Information Extraction

- **Research Assistant** Sep 2021 - Jun 2022
  HKUST Knowledge Computation Group, led by Prof. Yangqiu SONG
  - Help to train and test Knowledge Models
  - Propose, experiment ideas to populate Commonsense Knowledge Graph

- **AI Internee** Mar 2021 - Sep 2021
  Vietnam Technology International, Research and Development group
  - Involved in projects in Computer Vision and Natural Language Processing (NLP), gained interest and specialty in NLP
  - Key person of an internal project in Machine Translation, took part in almost all aspects of the project (in MLOps cycle)

Publications

2022

- **PseudoReasoner: Leveraging Pseudo Labels for Commonsense Knowledge Base Population**
  Tianqing Fang, **Quyet V. Do**, Hongming Zhang, Yangqiu Song, Ginny Y. Wong and Simon See
  Findings of EMNLP 2022.
  - Use the idea of pseudo labels to perform semi-supervised learning on CSKB Population, achieving state-of-the-art.
  - Propose a filtering strategy for pseudo labels using influence function and self distillation (the student model's own predictions).

Awards and Honors

- Academic Achievement Medalist of HKUST UG Class of 2022 [2022]
- Awardees for the 16th, 17th HKUST Epsilon Fund Award [2021, 2022]
- Dean's List Student of HKUST [All semesters except Spring 2021]
- The Bronze Medal at the 58th International Mathematical Olympiad [2017]

Skills and Hobbies

- Technical: Python, PyTorch, familiar to TPU-training and Cloud Computing.
- Soft skills: Motivate others, work effectively under pressure and limited supervision.
- Language: Vietnamese (Native), English (proficient), Chinese (beginner).
- Hobbies: I like playing badminton, and especially love singing.