Guojun Wu

wuguoaiw@gmail.com github.com/gjwubyron/

Education

National Taiwan University of Science and Technology (NTUST) **Sep. 2018 – Present**
Bachelor of Science in Electronic and Computer Engineering *Expected graduation: June. 2022*

GPA: 3.49/4.30

Relevant Courses: Calculus A+, Engineering Mathematics I & II (Differential Equation & Linear Algebra) A+

IELST: Overall 7.5 (Listening 8.0, Reading 8.5, Writing 6.5, Speaking 6.0)

Research Interest

My current research interest is Natural Language Processing, in particular Text classification, Semantic Analysis, and BERT-style Representation Learning

Research Experience

Thought Lab, My Brain **July. 2021 – Present**
Reasoning based on other's solid works

- Surveyed paper about BERTology.
- Gained general insights from an analysis about BERT's attention.
- Reasoned how BERT learn syntactic representation based on the analysis.
- Proposed a hypothesis and described it in a blog.

Mobilizing Information Technology Lab, NTUST **Sep. 2020 – June. 2021**
Independent Project *Advisor:Jenq-Shiou Leu*

- Proposed the project with the aim of combating fake news based on Natural Language Processing.
- Formed a holistic view through surveying statistical approaches and publicly available datasets.
- Defined the approach as a rating-inference task, which represents a twist from standard text classification.
- Utilized BERT to run a pilot study on a benchmark dataset (i.e., LIAR), with PyTorch and HuggingFace Transformers.
- Collected a relatively larger dataset through web scraper (needed more data according to the pilot study).
- Defined coarse-to-fine classification regimes to investigate a major problem (i.e., class similarity).
- Intended to enhance BERT with additional layers, utilizing all tokens in final layer of BERT.
- Fine-tuned the models over a pilot dataset (i.e., an exhaustive search over suggested settings).
- Analyzed the results and proposed a new metric that can better evaluate rating-inference task.
- After I experienced the magic of BERT, curiosity drove me to study about BERTology.

Publications

Guojun Wu, Rating Facts under Coarse-to-fine Regimes, arXiv:2107.06051, July 2021

- Thought through the project and designed the structure of the narrative.
- Drew figures in matplotlib and wrote the paper in LaTex.

Technical Skills

Programming Languages: Python, C, HTML/CSS, JavaScript
Developer Tools/Frameworks: Github, HuggingFace, PyTorch, Tensorflow

Soft Skills/Interests

Academic writing: LaTex, Matplotlib
Language: Chinese (native), English (proficient)
Interests: Reading, Basketball, Philosophy