PINGZHI LI

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Education

University of Science and Technology of China   Sep. 2019 – Jul. 2023
Bachelor of Engineering in Computer Science and Technology   *Hefei, China*

Experience

The University of North Carolina at Chapel Hill   June 2023 – September 2023
Research Intern   *Remote*

- Produced an ICLR 2024 submission, proposed an SMoE merging and compression framework, which leverages routing statistics as guidance, achieving impressive results of both memory- and parameter- efficiency.
- Won the 1st place of ACM/IEEE Quantum Computing for Drug Discovery Challenge (team *MIT-EPiQC-CMU-Duke*), developed a Pauli string grouping technique to reduce the number of required measurements.

University of Science and Technology of China   September 2022 – January 2023
Teaching Assistant   *Hefei, China*

- Undergrad course - CS1001A Computer Programming A (C Language).

University of Science and Technology of China   July 2021 – July 2021
Undergrad Intern   *Hefei, China*

- Got deeply involved in developing an advanced NLP library towards multi-modal educational items.
- Won the Silver Medal (top 100/2000) in the Kaggle Feedback Prize - Evaluating Student Writing competetion.

Publications

Pingzhi Li, Zhenyu Zhang, Prateek Yadav, Yi-Lin Sung, Yu Cheng, Mohit Bansal, Tianlong Chen. **Merge, Then Compress: Demystify Efficient SMoE with Hints from Its Routing Policy**. *Submitted to ICLR 2024. arXiv preprint arXiv:2310.01334, 2023.*

Open Source Projects

EduNLP | *Python, PyTorch*   June 2021

- An accessible and flexible library for advanced Natural Language Processing towards multi-modal educational items.
- Provide thoughtfully designed API for researchers, ranging from question item processing, tokenizer and model design, through to training on various tasks.
- Github repo: github.com/bigdata-ustc/EduNLP.

Honors and Awards

1st Place of ACM/IEEE Quantum Computing for Drug Discovery Challenge	*November, 2023*
Outstanding Graduates Scholarship, USTC	*June, 2023*
Silver Medal in Kaggle Feedback Prize - Evaluating Student Writing	*March, 2022*
Outstanding Student Scholarship, USTC	*November, 2020/21/22*

Skills

Languages: Mandarin (native), English (intermediate), German (elementary)
Programming Languages: Python, C/C++, Bash, SQL
Deep Learning Frameworks: PyTorch, HuggingFace Transformers, DeepSpeed, Jax/Flax