

RENXI WANG

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EDUCATION

Mohamed bin Zayed University of Artificial Intelligence (MZBUAI), UAE

Aug 2023 - Present

MsC in Natural Language Processing Supervisor: Timothy Baldwin

Northeastern University, China

Sept 2019 - June 2023

B. Eng. in Computer Science And Technology

GPA: 90.6/100

Ranking: 28/221

RESEARCH INTERESTS

Information Retrieval; Reinforcement Learning; Natural Language Processing; Large Language Model; Jailbreak; In-Context Learning; Natural Language Generation

PUBLICATIONS

Learning From Failure: Integrating Negative Examples when Fine-tuning Large Language Models as Agents

[Paper][Code]

Under review

Renxi Wang, Haonan Li, Xudong Han, Yixuan Zhang, Timothy Baldwin

- Designed tools for math reasoning task and question answering task.
- Collected interaction trajectories between agents and environments.
- Fine-tuned LLMs on collected trajectories with target-aware training.

Understanding the Instruction Mixture for Large Language Model Fine-tuning. [Paper][Code]

Under review

Renxi Wang, Haonan Li, Minghao Wu, Yuxia Wang, Xudong Han, Chiyu Zhang, Timothy Baldwin

- Selected different combinations of instruction to fine-tune large language models
- We found that instruction datasets improve LLMs' in-domain performance
- Simply mixing different instructions may have a negative transfer on general chat and instruction-following ability

DialogueGLP: Global-Local Modeling with Prompt-Based Knowledge Enhancement for Emotion Inference in Conversation. [Paper][Code]

EACL 2023 findings

Renxi Wang, Shi Feng

- Utilized prompt learning to generate knowledge for emotion detection.
- Designed templates for InstructGPT to generate knowledge for dialogue systems.
- Proposed new modeling method to predict emotion in conversations.

PROJECTS

AutoLearn-GPT [Code](#)

May. 2023

Explore whether the LLM can learn by itself

- Equipped ChatGPT with a memory brain to memorize everything it does not know.
- Utilized ChatGPT to decide whether LLMs need to learn.
- Still in progress...

flan-alpaca-lora [Code](#)

Apr. 2023

Train Flan-T5 with instruction-following data and low rank adaptation

- Trained Flan-T5 with multiple instruction-following datasets.
- Fitted Flan-T5-11B into a GPU with 24G memory.

TECHNICAL SKILLS

English Fluency: TOEFL iBT 98

Computer Skills: Python, Pytorch, transformers, Git, C, C++, MATLAB, \LaTeX , Java.