Renxi Wang

Email: realreasonwang@gmail.com| Tel: (+86)13940208498 | Homepage:
https://renxiwang.site/

EDUCATION

Northeastern University, China *Sept. 2019 ∼ present*
School of Computer Science and Engineering
GPA: 90.1/100 **Ranking**: 34/221
Course Highlights: Data Structures(91), Probability and Mathematical Statistics(94), Artificial Intelligence(93), Natural Language Processing(95), Object-Oriented Programming(98), Computing Theory(91), Mathematical Basis of Artificial Intelligence(95)

RESEARCH INTERESTS

Information Retrieval; Machine Learning; Natural Language Processing; Dialogue System; Open-domain Question Answering

PUBLICATIONS

Global-Local Modeling with Prompt-Based Knowledge Enhencement for Emotion Inference in Conversation.
Renxi Wang, Shi Feng
Submitted to EACL 2023

RESEARCH EXPERIENCE

Topic: Emotion Detection in Dialogue Systems *June. 2022 ∼ Oct. 2022*
Instructor: Prof. Shi Feng; NEUDM
Goal: Utilize prompt learning to generate knowledge for emotion detection.
- Designed templates for GPT to generate knowledge for dialogue systems.
- Proposed new modeling method to predict emotion in conversations.

Topic: Open-domain Question Answering *Oct. 2021 ∼ Dec. 2021*
Instructor: Prof. Zhenghao Liu; NEUIR
Goal: Utilize knowledge distillation to build an end-to-end QA system.
- Did Survey about dense passage retrieval, open-domain question answering.
- Distilled knowledge from reader to retriever for question answering.

Topic: Model Architecture *July. 2021 ∼ Aug. 2021*
Instructor: Dr. Anxiang Ma; NLP Lab, NEU
Goal: Select number of computations (layers) more efficiently for decoding of transformer model.
- Designed loss with mutual information with respect to the layers.
- Adaptively selected decoding layers with newly designed loss.
- Speeded up the training and inference of Transformer models.

COMPETITIONS

- Kaggle: NBME - Score Clinical Patient Notes, ***SOLO*** bronze medal. Report
- Kaggle: U.S. Patent Phrase to Phrase Matching, ***SOLO*** bronze medal.

AWARDS AND HONORS

- National Encouragement Scholarship, 2020/2022
- Scholarship for Outstanding Students, 2020/2022

COURSE PROJECTS

Unix Like File System Code *June. 2022*
Instructor: Shi Feng; Course: Operating System
- Implemented a Unix like file system with group links.
- Implemented Unix like commands to operate files.

Software Engineering Project Code *May. 2022*
Instructor: Wei Li; Course: Software Engineering
- Built a software with python and pyqt.
- Operated postgresql database with psycopg 2.

TECHNICAL STRENGTHS

English Fluency: TOEFL iBT 98
Computer Skills: Python, Pytorch, Git, C, C++, MATLAB, LaTeX, Java.