SHIHAO Liang

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SUMMARY

Undergraduate at Tianjin University. Research assistant in THUNLP Lab, Tsinghua University. Focusing on various natural language processing topics.

WORK EXPERIENCE

THUNLP Lab, Tsinghua University   Apr 2022 - Present
Research Assistant
- **Snowball-QA Project**. Generate high-quality and large-scale QA data.
- **WebCPM Project**. Build the first Chinese Long-form question answering data set. Fathom the inner workings of WebGPT through in-depth analyses. Demonstrate its applicability in Chinese.
- Supervisors: Zhiyuan Liu, Xu Han, Huadong Wang, Yujia Qin.

Baidu NLP, DQA group   Oct 2021 - Apr 2022
Research and Development Intern
- **Deep Question-Answering** on search engine. Optimize the first search result using cross-encoder to rank the candidates. Improve the ranking model's robustness with unsupervised strong negatives.
- **Model Distillation** to business. Assist in the application of question-answering technology in search engine in industry. Distill Ernie2.0 into 2-layer encoder model with minimal performance difference.
- **Paper Reproduction**. Using Paddlepaddle to reproduce papers in the fields of computer vision and natural language processing.
- Mentors: Jing Liu, Yuchen Ding.

PROJECTS

Project Snowball-QA

Propose a iterative bootstrapping framework that can continually generate high-quality and large-scale QA data. Equip CPM-Ant+ with question-answering ability by pre-training with the auto-generated data, support CPM-Bee the same way with data of better quality and larger scale.

Project WebCPM   Demo

The first Chinese Long-form question answering data set, with retrieved information based on interactive web search. Collected 5500 question-answer pairs, together with the supporting facts and human behaviors, with web search behaviors recorded. QA Pipeline launched on Zhihu and has high star answers to the hot issues on Zhihu.

EDUCATION

2018 - 2022   B.Eng (Subject) at **Tianjin University**   (GPA: 3.49/4.0)

AWARDS AND HONORS

2020   Advanced Individual in Academic Progress of TJU
2021   **First Prize**(Paper Reproduction Challenge of China Society of Image and Graphics)