Weiqi Wang (Mighty)

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Education

The Hong Kong University of Science and Technology Kowloon, Hong Kong SAR, China
Bachelor in Computer Science and Mathematics (Double Major) ***CGA: 3.86/4.3*** *Sep. 2018 – Now*

Beijing No.8 Middle School Beijing, China
High School's Diploma in Science ***Rank: 5/306*** *Sep. 2015 – Jun. 2018*

Research Experience and Publication

[EMNLP2021] NLP Research Project Jan. 2021 – Present
Supervised by Prof. Yangqiu Song *HKUST, Hong Kong SAR, China*

- Details of this project will only be made public after EMNLP 2021 acceptance/rejection notification
- To be submitted to EMNLP 2021.

[WWW2021] DISCOS Sep. 2020 – Dec. 2020
Supervised by Prof. Yangqiu Song *HKUST, Hong Kong SAR, China*

- Reproduce all the baseline models. Analyze the knowledge generated by COMET and propose the defects of COMET model, such as low in novelty, redundant knowledge.
- Improve COMET's beam search logic to make it comply with the classical beam search settings.
- All the annotations by using Amazon Turker to evaluate the quality of our generated knowledge. Report statistics and help write the paper.
- Accepted by The Web Conference, 2021 (WWW2021).

[JCLEPRO] Data-driven Assessment of Air Conditioner Efficiency Jun. 2020 – Jan. 2021
Supervised by Prof. Zhongming Lu *HKUST, Hong Kong SAR, China*

- Preprocess over one million data and integrate data of different categories from multiple sensors.
- Implement multiple machine learning algorithms to train the models for each seperate room. Algorithms ranges from the basic kernel regression such as SVM to deep learning. The final choice is XGBoost by Tianqi Chen.
- Use Shapley Additive Explanation to explain the models and analyze the impact of all the variables to the regression result.

Publications

DISCOS: Bridging the Gap between Discourse Knowledge and Commonsense Knowledge
Tianqing Fang, Hongming Zhang, ***Weiqi Wang****, Yangqiu Song, Bin He*

- Published in the Proceedings of The Web Conference, 2021 (WWW2021) (357/1736 = 20.56%)
- Link to the paper | Link to the code

Data-driven Smart Assessment of Room Air Conditioner Efficiency for Saving Energy
Weiqi Wang*, Zixuan Zhou, Zhongming Lu*

- To be Submitted.
- ~~Link to the paper~~ | Link to the code

Skills

Languages: English (Advanced), Mandarin (Native), Cantonese (Beginner)
Programming Languages: Python (Advanced), C++ java (Proficient), HTML5 JavaScript (Basic)
Frameworks: PyTorch, Tensorflow, Keras, Scikit-learn, Amazon Mechanical Turker
Libraries: pandas, NumPy, Matplotlib, seaborn, Spacy

Awards

Dean's List for the School of Engineering in Fall 2018, Fall 2019, Fall 2020
University's Scholarship Scheme for Continuing Undergraduate Students in 2019-2020, 2020-2021