Yihuai Hong

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Educations

Bachelor of Engineering, Computer Science　　　　　　　　　　　　*Sept 2020 – Present*
South China University of Technology, Guangdong, China　　　　　Expected Graduation: *June 2024*
- **CGA:** 3.55/4.00
- **Relevant Courses:** Algorithm design and analysis(94/100), Probability & Mathematical Statistics(94/100), Discrete Mathematics(95/100), Data Structure(92/100), Database System(90/100)

Research Experience

Research Assistant　　　　　　　　　　　　　　　　　　　　　　　*July 2021 - Present*
School of Computer Science and Engineering, South China University of Technology

- Independently completed and actively contributed to several research projects highlighted below

Project: ***Event Extraction via Prompt Learning***　　　　　　　　*Dec 2022 – Present*
Faculty Supervisor: *Ziqian Zeng*
- Dynamic Early-exit, which is popular in the field of deep learning in recent years, we have made a study on the sample weighting during training to make a better trade-off between classification effectiveness and efficiency. We are currently working on a conference paper.

Project: ***Few-shot Relation Extraction via Prompt-free***　　　　*May 2022 – Aug 2022*
Faculty Supervisor: *Ziqian Zeng*
- Improved and adapted the prompt-free algorithm and framework proposed by Facebook in ACL in 2021 for relation extraction tasks, which demonstrated enhanced performance .

Project: ***Event Extraction via Prompt Learning***　　　　　　　　*Feb 2022 –May 2022*
Faculty Supervisor: *Ziqian Zeng*
- Built a trigger word detection algorithm for applications in event extraction, utilizing an attention mechanism to reshape the relationship and extraction features between the event type and the original text, followed by a token classification model to achieve effective detection.

Honors and Awards

Kaggle Silver medal (Top 5%)　　　　　　　　　　　　Kaggle Competitions, *July 2021*
- CommonLit Readability Prize：
  Rate the complexity of literary passages for grades 3-12 classroom use

Kaggle Bronze medal (Top 6%)　　　　　　　　　　　　Kaggle Competitions, *Mar 2022*
- Feedback Prize - Evaluating Student Writing:
  Evaluating Student WritingAnalyze argumentative writing elements from students grade 6-12

First Prize Scholarship　　　　　　　　　　　South China University of Technology, *Oct 2022*
- Awarded to the top 10% of students in their majors in a combination of academic, moral and athletic qualities

Second Prize Scholarship　　　　　　　　　　South China University of Technology, *Oct 2021*
- Awarded to the top 5% of students in their majors in a combination of academic, moral and athletic qualities

Sanjihue Yue+ Scholarship   South China University of Technology, *Oct 2022*
- A corporate scholarship awarded to the top 2 of students in their majors in their major studies

Expertise and Research Interest

▪ Natural Language Processing   ▪ Machine Learning   ▪ Deep Learning   ▪ Predictive Analytics
Proficient in various analytical tools and DL frameworks: Python, Matlab, SPSS, SQL, Tableau, Pytorch