DINGJUN WU

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EDUCATION

Tsinghua University   Beijing

M.S. in Electronic and Information Engineering   2020.09 - 2023.06

- GPA: 3.83/4.0 (Top 10%)

Hangzhou City University   Hangzhou, Zhejiang

B.A. in Finance   2015.09 - 2019.06

PUBLICATIONS

Dingjun Wu, Jing Zhang[†] and Xinmei Huang. [Chain of Thought Prompting Elicits Knowledge Augmentation](). *Findings of ACL* 2023.

Ziyan Cai, **Dingjun Wu** and Ping Li[†]. [DialCL-Bias: A Semantic and Contextual Framework to Identify Dialogue Social Bias](). *IEEE SMC* 2023, Oral.

PROJECTS

Chinese Financial Numerical Event Extraction: Task, Benchmark and Application   2022.08 - 2023.05

Project Leader

- **Task and Benchmark**: Propose a task: FinNuEE, which aims to extract specific numerical events from financial texts. Besides, we propose a universal schema and four manually annotated datasets for FinNuEE.
- **Data Augmentation**: Propose a rule-based and a LLM-based data augmentation method: *Argument Replacement* and *Text Rewriting*, to generate a more extensive set of training data.
- **Application**: A framework that summarizes the important financial numerical information in the document.

Knowledge Augmentation Method Based on Chain-of-Thought   2022.08 - 2023.01

Project Leader

- **Knowledge Retrieval**: Based on Chain-of-Thought, the GPT-3 is used as an external source of knowledge, from which knowledge is retrieved for downstream NLP tasks.
- **Knowledge Augmentation**: Concatenate the retrieved knowledge with the original text to supplement knowledge for the original input, enhancing model training for commonsense and arithmetic reasoning tasks.
- **Project Results**: The work has been accepted by *Findings of ACL, 2023* (first author).

EMPLOYMENTS & INTERNSHIPS

Meituan Ltd.   Dept. of Speech Interaction   Beijing

NLP Engineer   2023.07 - 2024.06

- **Intent Recognition**: (1) Enhanced online intent recognition rank RoBERTa model, boosting business-intent recognition P/R metric by 5% for the top 14 businesses, promoting problem-solving while decreasing dissatisfaction and transfer-to-human rates. (2) Responsible for daily inquiries and operational support tasks.
- **Query Rewriting**: Propose a query rewriting framework based on RAG+LLM, including (1) prompts containing intent recognition results, (2) a control module determines whether to rewrite queries. The framework was applied to 6.67% of challenging queries, resulting in business-intent's F1 + 1.19% (69.50% →70.69%).

Q&B Quant   Dept. of Investment Research   Shenzhen, Guangdong

Quant Research Intern   2023.01 - 2023.04

Renmin University of China   RUC-KBReasoning Lab   Beijing

Research Assistant, advised by Prof. Jing Zhang   2022.07 - 2023.01

Baidu Ltd.   Baidu Research   Beijing

NLP Research Intern   2022.01 - 2022.06

HONORS & AWARDS

- 2024 Kaggle Competition: LLM - Detect AI Generated Text, *Silver Medal* (50/4359) 2024
- Tsinghua SIGS Scholarship 2021, 2022
- 2021 iFLYTEK AI Developer Competition: Offline Store Sales Forecasting, *Champion* (1/315) 2021

SKILLS

- Programming: Python, Java, Matlab
- Data Analysis: SQL, Numpy, Pandas

OTHERS

- TA: Internet Finance (Winter 2022), Research on Frontier Issues in Finance II (Spring 2023)