

Qi Li

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EDUCATION

East China Normal University

Major: Data Science and Big Data Technology

Sept 2021 - now

current major GPA: 3.76/4, WAG: 91.13/100

Relevant Courses: Statistics & Machine Learning(A), Computer Vision(98, A), Distributed System(93, A)

Visiting student at New York University Shanghai

Aug 2023 - Dec 2023

RESEARCH EXPERIENCE

East China Normal University

Undergraduate Researcher in Decision Intelligence Lab, advised by Prof. Yang Shu

Oct 2023 - Dec 2023

Shanghai, China

TEXT2SQL: Improved Large Language Models for SQL generation, aiming to enhance the accuracy and efficiency of SQL queries produced by AI systems.

Chinese University of Hong Kong, Shenzhen

Research Assistant in FreedomAI Lab, advised by Prof. Benyou Wang

Jul 2024 - Dec 2024

Shenzhen, China

1. **Federated Learning System**: Implemented proxy-tuning techniques to reduce computational resource requirements on edge devices, enhancing the efficiency and applicability of federated learning applications.

2. **LLM Inference & Prompt Engineering**: Identified key prompt patterns, clarified their roles, and systematized prompt engineering. Furthermore, we proposed a prompt ensemble framework to assess the consistency of LLM inference.

PUBLICATION

Composition Pattern of Prompting Engineering, an Empirical Study

Qi Li, Nuo Chen, Chenyu Wang, Wanlong Liu, Zhongxiang Dai, Benyou Wang

Under review

WORK EXPERIENCE

China Foreign Exchange Trade System

Summer Internship

Aug 2023 - Sept 2023

Shanghai, China

1. Research and comparison of Mathematical Optimization tools for Business: Gurobi, CPLEX, COPT.

2. Utilized Numpy, Plotly, Pandas, Tkinter to develop a statistical tool for managing data.

PROJECTS

goMapReduce

A simple implementation of MapReduce in Golang, designed to support fault tolerance, Hadoop Distributed File System (HDFS) integration, and efficient task management.

SGLang

Contributed to SGLang, a high-performance serving framework for large language models and vision-language models.

University of Alberta Research Experience(UARE)

Modeling and Managing the Power Demand of Large Language Models, advised by Prof. Yize Chen Alberta, Canada

The project's goal is to quantify the power consumption of training, serving, and maintaining LLMs, focusing on GPU and CPU units at the micro-scale. Additionally, the project explores parallel computing and scheduling techniques to mitigate power spikes.

HONORS AND AWARDS

1. National Encouragement Scholarship

Sept 2023

2. The Chinese Mathematics Competitions (Shanghai Region). Frist Prize.

Jan 2023

3. National College Student Mathematical Modeling Contest (Shanghai Region). Second Prize.

Dec 2022

SKILLS

Programming Languages

C, C++, Python, Java, JavaScript, Golang

Framework

PyTorch, Scikit-Learn, Numpy, Pandas, Springboot, Vue, L^AT_EX

Version Control

Git