



Qi Li

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Research Interests: Large Language Model, Machine Learning System, Statistics

## 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 - now

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 and systematized prompt engineering. Additionally, we proposed a prompt ensemble framework to enhance the consistency of LLM inference.

## 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.

### University of Alberta Research Experience(UARE)

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

Jan 2025 - April 2025

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, Latex

Version Control

Git