Li Zhenghao

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Education

The Hong Kong University of Science and Technology — *Hong Kong, China*

Master of Science (MSc) in Big Data Technology — *Sep 2024 - Oct 2025 (expected)*

- GPA: 4.12/4.3

XI'AN JIAOTONG UNIVERSITY (C9/985/Double First-Class University) — *Xi'an, China*

Bachelor of Management in Big Data Management and Application — *Sep 2020 - Jun 2024*

- GPA: 88.5/100

Publication

- **Zhenghao Li, Shengbo Wang, and Nian Si. "Near-Optimal Sample Complexities of Divergence-based S-rectangular Distributionally Robust Reinforcement Learning".** *Under Review.* [arxiv]

Experience

Graduation Project (Thesis): Research on Memory-Efficient Approximate Optimization Algorithms for Large Language Models — *Jan - Jun, 2024*

- Utilized Sketching methods to approximate optimizer state variables to reduce memory usage
- Conducted experiments on LLaMa2 models of varying sizes, demonstrating faster convergence compared to Adafactor and GaLore
- Analyzed the economic benefits of reduced memory usage

Professional Internship at Beijing SinoAge Technology Development Co., Ltd. — *Aug 4 - 24, 2023*

- Participated in the construction of an intelligent home service system based on the GPT model.
- Designed GPT model prompts for smart homes, converting users' daily speech into precise machine-executable commands, improving the accuracy of language comprehension.
- Developed a simple web and backend code set, realizing the full process from voice input to machine execution commands.
- Received an excellent internship evaluation.

Big Data and Business Intelligence Interest Group — *Nov 2022 - Jun 2024*

- Scraped related information from TikTok's live broadcast room, including but not limited to bullet screens, videos, and product sales.
- Wrote an automation script for daily scheduled crawling.

Professional Internship at Technology and Engineering Center for Space Utilization, Chinese Academy of Sciences — *Jul 10 - 24, 2022*

- Collected keywords relevant to the experimental payloads of Tiangong-1 and Tiangong-2, and utilized Selenium and BeautifulSoup to scrape the paper related to aerospace research achievement data from CNKI, Wanfang, and Web of Science databases.
- Integrated the crawled data by papers and stored it as structured data in a designed format.
- Supplemented and de-duplicated data based on paper-author dyads, filtered and cleaned data using information such as journals and abstracts.
- Converted the structured data into triples and created entities and relationships in neo4j using py2neo, forming a comprehensive knowledge graph.
- Received an excellent evaluation for the performance during the internship.

Skills

Programming Language	Python, SQL
Web Scraping	Selenium, Requests, BeautifulSoup
Deep Learning	Fundamental neural network creation with TensorFlow and PyTorch; Neural network training based on remote servers
English Proficiency	IELTS (7.0)
Document Preparation	Markdown, LaTeX, Word, PowerPoint

Honors

2023 **Honorable Mention**, 2023 Mathematical Contest In Modeling

2022 **2nd Place, the title of Outstanding Student**, 2021-2022 Baidu Big Data AI Elite Class

2022 **Second Prize at the Province Level**, "The 13th National Lanqiao Cup Software and Information Technology Talents Competition" - Python Programming College Group A

2021 **Third Prize at the University Level**, 2020-2021 Academic Year School-level Scholarship

Extracurricular Activities

XI'AN JIAOTONG UNIVERSITY BMY CYCLING CLUB *Xi'an, China*

Club Manager *Oct 2020 - Jun 2024*

- Served as the cycling team captain, organized off-campus cycling activities, managed the team, and hosted the China University Indoor Cycling Cloud Challenge
- Competition Awards:

2023 **8th Place**, Tour de Qinghai Lake League (Xi'an Stage)

2023 **12th Place**, the Second China University Indoor Cycling Cloud Challenge

2021 **3rd Place**, VAUDE Cup the 36th China Qinling Mountains Watershed Bike Climbing Competition

2021 **3rd Place**, the First China University Indoor Cycling Cloud Challenge