

EDUCATION

Beijing Normal-Hong Kong Baptist University <i>Expected Bachelor of Science (Honours) in Artificial Intelligence; Cumulative GPA: 3.47/4.0</i> Honors and Awards: Dean's List for 3 semesters (2023-2024-1; 2021-2022-2; 2021-2022-1), President's Honour Roll for 3 semesters (2023-2024-2; 2022-2023-2; 2022-2023-1).	Zhuhai, China Aug 2021 - Now
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PUBLICATIONS

- Miao, Y., Tang, K., Wang, C., Cao, Y. (2024). Learning noisy transition matrix using a neural network. *Applied and Computational Engineering*, 43, 270–276. Retrieved from <https://www.ewadirect.com/proceedings/ace/article/view/10362>

WORK EXPERIENCE

Pair City <i>Intern in Algorithms, Supervisor: Dr. Andy Zheng</i> <ul style="list-style-type: none">Keywords: intelligent transportation,urban transportation big data analysis.Optimize the recommendation algorithm for driver pickup, considering various practical aspects of the business.Design and optimize the company's product, considering user-friendliness and practicality.	Shenzhen, China Dec 2024 - Mar 2025
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RESEARCH EXPERIENCE

Hong Kong University of Science and Technology (Guangzhou) <i>Research Assistant, Supervisor: Prof. Xuming Hu</i> <ul style="list-style-type: none">Keywords: multimodal large language models (MLLMs), chain of thought(CoT), hallucination.Enhanced the quality of CoT outputs in MLLMs by identifying biases, knowledge gaps, and image recognition errors, and applying targeted fine-tuning.Established a benchmark for evaluating the CoT outputs of various MLLMs.Achieved a 6% performance improvement for a 7B model, enabling it competitive with numerous larger-scale models.	Guangzhou, China Jun 2024 - Sep 2024
The Learning and Inference Systems (LINs) Laboratory, WestLake University <i>Research Assistant, Supervisor: Prof. Tao Lin</i> <ul style="list-style-type: none">Keywords: data distillation, self-supervised learning, meta learning.Explored computationally efficient methods for high-performance sequence (multimodal) data distillation, leveraging self-supervised learning and related techniques.Developed a comprehensive benchmark for data distillation.	Hangzhou, China Nov 2023 - Feb 2024
China International Education Institute/Carnegie Mellon University <i>Summer Program Student,Supervisor: Prof. Pradeep Ravikumar</i> <ul style="list-style-type: none">Keywords: contrastive learning, representation Learning.Developed and implemented an innovative approach to analyze data distributions,incorporating contrastive learning and a mathematically grounded framework for noise transition matrices.Achieved over 85% accuracy, establishing a powerful method for data labeling and self-supervised learning applications.	Beijing, China Jul 2023 - Aug 2023

COURSE PROJECTS

Deep Learning Course Project <i>Project Team Leader, Supervisor: Prof. Wentao Fan</i> <ul style="list-style-type: none">Project name:Filtering and considering key points before responding: Process optimization in RAGDesigned and implemented a method based on fixed filtering and keypoint extraction for LLMs in RAG medical QA scenarios, integrating reasoning chain optimization to enhance corpus relevance and inference performance.Improved accuracy by 5-10% across 7B-34B LLMs with clear relevance to source and generated insights, while maintaining negligible computational overhead.	Zhuhai, China Feb 2024 - Jun 2024
Big Data Analytics Course Project <i>Project Team Leader, Supervisor: Prof. Zongwei LUO</i> <ul style="list-style-type: none">Project name:Twitter sentiment classification under concept drift by using RL-based online strategyDesigned and implemented a decouple-learning-based online sentiment analysis method, integrating reinforcement learning strategies to enable the model to adapt to dynamic sentiment distributions under concept drift.Achieved over 95% accuracy in Twitter sentiment classification.	Zhuhai, China Sep 2023 - Dec 2023

TECHNICAL SKILLS

- **Programming:** Python (advanced), PyTorch / TensorFlow, Java, JavaScript (for deployment), SQL, Shell Scripting
- **Data Analytics & AI:** Jupyter Notebook, NumPy / Pandas, Matplotlib / Seaborn, PyTorch / TensorFlow
- **Language:** IELTS7.0 / GRE323

EXTRACURRICULAR ACTIVITIES

Beijing Normal University-Hong Kong Baptist University United International College

Shenzhen, China

Volunteer, University Promotion

Jul 2023 - Aug 2023

- **commentator:** Volunteered at a university promotional event, leading enrollment outreach efforts at multiple senior high schools.