Jinbang Lai

ZheJiang China | jinbanglai@outlook.com | July 1996

Education

China Three Gorges University, Master's in Computer Science — Sept 2022 – June 2025

- GPA: 3.24/4.0
- **Coursework:** Artifice Intelligence, Machine Learning, Stochastic Process, Numerical Analysis

Hangzhou Normal University, Bachelor's in Applied Physics — Sept 2018 – June 2020

- **Coursework:** Advanced Mathematics, Quantum Mechanics, Analog Electronics Technology

Hangzhou Polytechnic, Diploma in Mechatronics Technology — Sept 2015 – June 2018

- **Coursework:** Microcontroller Technology, Digital Electronic Technology

Experience

Quantitative Trading System Combining Large Language Models and Reinforcement Learning — 2024

- Developed a quantitative trading system that integrates large language models with reinforcement learning techniques.
- Tools Used: Python, PyTorch, LLM, Linux

Optimizing Reinforcement Learning Trajectories Based on Large Language Models — 2023

- Enhanced the learning efficiency of reinforcement learning agents by optimizing trajectory selection based on Large Language Models.
- Tools Used: Python, PyTorch, LLM, Linux

GPU Accelerated Electronic Response Function Calculation — 2020

- Enhanced the learning efficiency of reinforcement learning agents by optimizing trajectory selection based on Large Language Models.
- Tools Used: C, CUDA, Linux

Multi-functional Rehabilitation Device for Disabled Individuals — 2018 Video Here

- Led the team, write control code for remote functions and AGV tracking, and filmed the product demo video.
- Tools Used: C, STM32, Kill, Android

Publications

Sample Trajectory Selection Method Based on Large Language Model in Reinforcement Learning — 2024

J. Lai and Z. Zang, *IEEE Access*, vol. 12, pp. 61877-61885, doi: 10.1109/ACCESS.2024.3395457.

Quantitative Trading System Based on Large Language Models and Reinforcement Learning — 2024

J. Lai and Z. Zang *(Under Review)*.

Skills

Technologies: Python,C,Java,PyTorch, Linux, Keil, STM32, C8051

Languages: Mandarin(native), English(DET:115)