Jinbang Lai

ZheJiang China | jinbanglai@outlook.com | July 1996

Education

China Three Gorges University, Master's in Computer Science — Sept 2022 – June 2025
- GPA: 3.52/4.0
- **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
- Developed a novel trajectory selection method using large language models, achieving 37% improvement in average rewards across multiple benchmark environments
- Tools Used: Python, PyTorch, LLM, Linux

GPU Accelerated Electronic Response Function Calculation — 2020
- Developed a GPU-accelerated computation system using CUDA framework to optimize electronic response function calculations, achieving 1.2% performance improvement
- 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, Keil, 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.

Skills

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

Languages: Mandarin(native), English(DET:110)