YANG HAO

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EDUCATION BACKGROUND

Beijing Institution of Technology   09/2020-06/2024
B.E. In Computer Science and Technology, School of Computer Science   *GPA: 86.8/100*

INTERNSHIP EXPERIENCE

Software Development Engineer at Microsoft for Startups   08/2023-10/2023
Helped with LLM grounding of Microsoft for Startups

- Using RAG for knowledge grounding (LangChain) to build a chatbot that is capable of answering questions on Microsoft for Startups programs from startups around the world replacing the current search based Q&A website.

Software Development Engineer at Shanghai Yaocheng Health Technology   06/2023-08/2023
Develop the back-end and the automated test for a SAAS platform

- Established the interface with the front-end based on Spring Boot framework and OpenAPI, optimised sql statement in Mybatis, improved the operational efficiency.
- Automatically generated test cases for back-end data logic verification, applied Genetic Algorithm to increase logic coverage without increasing the size of the use cases.

RESEARCH EXPERIENCE

Graduation Project | *Approximating Nash Equilibria Using Neural Networks*   2024

- Designed a neural network structure specifically for approximating Nash equilibria and conducted extensive experiments to evaluate the performance of the method.

Experiments on Reinforcement Learning Algorithms   2023

- Applied reinforcement learning algorithms to train models to play Atari game, studied the limitations and applicable scenarios of different methods, implemented the Transfer Learning algorithm in the paper AdaRL.

Experiments on Optimization Algorithms   2022

- Applied various optimization algorithms to solve the flow shop scheduling problem, compared and analyzed performances of different algorithms, finalized the research paper.

PROFESSIONAL SKILLS

Programming skills: C++, Python, Java, SQL, PyTroch, LangChain, Hadoop, Spring Boot, Vue3, Verilog, etc.
Knowledge Base: Data Structure, Computer Network, Operating System, Mathematical Analysis, Linear Algebra, ML Algorithms, Optimization, RL, CV, etc
Language: Chinese (Native); English (Fluent);

HONORS & AWARDS

The Second Prize in Blue Bridge Cup C/C++ Programming Group A   2023
The Third Prize in National College Student Physics Competition   2022
University-level Second Class Scholarship   2021
The Second Prize in National College Student Mathematics Competition   2021