Changshuo Shen

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EDUCATION

University of Science and Technology of China Hefei, China
A Junior Undergraduate in School of Artificial Intelligence and Data Science *Sep 2023 – now*
Class of excellence for science and technology: **Yan Jici Talent Program in Physics** *Sep 2022 – June 2023*
GPA: 3.84/4.3
Rank in Class: 6 / 49
Major: Data Science and Big Data Technology
Core Course: Linear Algebra B1 (A^+), Discrete Mathematics (A^+), Mathematical Analysis B1 (A), Foundations of Geometry (A), Function of Complex Variable B (A), Probability Theory and Mathematical Statistics (A^-), Computational Method (A^-), Principles and Techniques of Artificial Intelligence (A^+), Introduction to Data Analysis Programming (A^+), Fundamentals of Scientific Programming with Python (A), Data Structures (A), Introduction to Computing Systems A (A), Signals and Systems (A)

AWARD AND SCHOLARSHIP

- Outstanding Freshman Award(2022-2023) Grade 2(top 15%) USTC 11/2022
- Basic Disciplines of The Top Plan Student Funding(Yan Jici Talent Program in Physics) USTC 11/2022
- Di'ao Award USTC 11/2023
- Huawei Award USTC 11/2024
- Second Prize in the 15th National College Student Mathematics Competition CMS 1/2024

RESEARCH INTERESTS

Large Language Models: Particularly interested in the development and optimization of large language models, including enhancing their accuracy, efficiency, and ethical implications.

Natural Language Processing: Enthusiastic about leveraging LLMs for various NLP tasks such as text generation, sentiment analysis, and language translation.

AI4Science: Excited about the interdisciplinary applications of AI in scientific research, including accelerating discoveries in physics, chemistry, and biology through AI-driven models and simulations.

Machine Learning: Interested in applying advanced machine learning techniques to improve the training and performance of LLMs.

SKILLS

Programming Languages: Python, C, C++, R

Markup & Scripting Languages: LaTeX, Bash, HTML, CSS, JavaScript

Tools & Technologies: Git, Docker, SQL, Jupyter, Torch, Django

Soft Skills: Leadership, Team Collaboration, Problem-Solving, Communication, Public Speaking

RESEARCH EXPERIENCE

Department of Physics, HKUST Hong Kong
Exchange Program Participant *August 2023, one week*
- Engaged in an exchange program focusing on the intersection of machine learning and physics, including attending the "When Physics Meets Machine Learning" lecture series.
- Explored cutting-edge research and advancements in both fields under the mentorship of leading experts at HKUST.

USTC Hefei, China
Undergraduate Course Project
- Simulated nonlinear dynamical systems using Python, analyzing behaviors and visualizing results. 11/2023
- Collaborated with one classmate to design a GoBang model using Reinforcement Deep Learning, surpassing the performance of the teaching assistant's basic model. 6/2024
- Led a two-person team to design an English club communication platform using the Django framework, providing a user-friendly interface for members to interact and share resources. 7/2024

Teaching Assistant Experiences

- Discrete Mathematics(Undergraduate Course)   2024 Automn

Extracurricular Activities

USTC English Club   Sep 2022 − Present
President   *Sep 2023 − Sep 2024*

- Planned and coordinated club activities, summarized work, and evaluated outcomes.
- Organized the largest outdoor treasure hunt event in the club's history, the USTC Mystery Hunt.
- Managed the club's official account, designed promotional materials, and wrote publicity articles.

Department Basketball Team   Sep 2022 − Present
Team Member   *Sep 2022 − Present*

- Played in almost all basketball games at USTC, including the Freshman Basketball Tournament, Kexing Cup, and the Four-Nation Battle.

Fitness, Basketball, and Taekwondo Clubs   Sep 2022 − Present
Member   *Sep 2022 − Present*

- Participated in various fitness and sports activities, promoting a healthy and active lifestyle.

Statements of Purpose

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