

# Changshuo Shen

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## EDUCATION

<b>University of Science and Technology of China</b> <i>Undergraduate in School of Artificial Intelligence and Data Science</i> <i>Class of excellence for science and technology: <b>Yan Jici Talent Program in Physics</b></i> <b>GPA: 3.91/4.3 (90.53/100)</b> <b>Rank in Class: 6 / 51</b> <b>Major:</b> Data Science and Big Data Technology <b>Core Course:</b> 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 ( $A$ )	Hefei, China <i>Sep 2023 – now</i> <i>Sep 2022 – June 2023</i>
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## 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
• National Encouragement Scholarship	USTC 11/2024
• Second Prize in the 15th National College Student Mathematics Competition	CMS 1/2024

## RESEARCH INTERESTS

**Large Language Models (LLMs):** Focused on the development, fine-tuning, and deployment of LLMs, aiming to improve their scalability, efficiency, and ethical alignment.

**AI Safety and Interpretability:** Dedicated to ensuring the safe and transparent use of AI systems by exploring model interpretability, robustness, and mitigation of potential risks in deployment.

## 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

## HIGHLIGHTED EXPERIENCE

<b>USTC-Software, IGEN Jamboree</b> <i>Group Leader, Code Group</i> • Led the development of frontend and backend components, ensuring seamless integration and performance. • Deployed ML models to enhance data visualization and analysis on the platform. • Presented the project at IGEN Jamboree, showcasing its features to a global audience.	Paris, France <i>October 2024</i>
<b>Department of Physics, HKUST</b> <i>Exchange Program Participant</i> • Attended the "When Physics Meets Machine Learning" lecture series, exploring the intersection of ML and physics. • Engaged in research discussions with HKUST experts on cutting-edge advancements.	Hong Kong <i>August 2023 (1 week)</i>
<b>USTC</b> <i>Undergraduate Course Projects</i> • Simulated nonlinear dynamical systems using Python, analyzing behaviors and visualizing results. • Collaborated with one classmate to design a GoBang model using Reinforcement Deep Learning, surpassing the performance of the teaching assistant's basic model. • 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. • Led a two-person team to implement a campus file resource retrieval system, incorporating Retrieval-Augmented Generation (RAG) techniques to enhance a locally deployable chatbot model. • Assisted in designing experiments for an undergraduate introductory Artificial Intelligence course, optimizing experimental workflows and improving the design of experiment objectives and materials.	Hefei, China 11/2023 6/2024 7/2024 12/2024 3/2025

## TEACHING ASSISTANT EXPERIENCES

• Discrete Mathematics(Undergraduate Course)	2024 Automn
• Linear Algebra B1(Undergraduate Course)	2025 Spring