Hongxu Chen

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Education

University of Science and Technology of China (USTC), undergraduate Sep. 2021– Present

School of the Gifted Young Major: Data Science and Big Data Technology

Overall GPA: 3.43/4.30 (84.84/100) Ranking: 22/53 Language: IELTS: 6.0

Core Courses: Mathematical Analysis B1&2(92/100), Linear Algebra(94/100), Algebra Fundamentals(95/100), , Functions of a Complex Variable(92/100), Data Structure(93/100), Computer Programing(89/100)

Research Experience

USTC LUNA TEAM May. 2023 - Present

Advisor: Professor **Qi Liu & Zhenya Huang**

- Provided MooCCubeX education data analysis for the Big Data Analysis and Application Anhui Provincial Key Laboratory (BDAA).
- Used PyTorch to reproduce the residual neural network ResNet18 in the paper "*Deep Residual Learning for Image Recognition*" and applied it to the CIFAR10 dataset for image classification.
- Responsible for the backend API changes and optimization of the educational resource analysis module of USTC LUNA AI laboratory platform.

USTC College Student Research Program Dec. 2023 - Present

Advisor: Professor **Zhenya Huang**

- Researching on a method for evaluating test question resources based on Chain-of-Thought technology of large language model and its application.

Curriculum Project Sep. 2021 - Present

- Implemented support vector machines based on the SMO algorithm and gradient descent algorithm and conducted a detailed analysis of the results for specific distributed datasets. The work was rated as ***excellent***.
- Reproduced the clustering algorithm in the paper "*Clustering by fast search and find of density peaks*".

Leadership & Activities

Mathematics competition tutor in Hefei No. 6 High School Sep. 2023 - Present

- Responsible for teaching Number Theory.

Member of USTC Calligraphy and Painting Club Sep. 2021 - Present

- Actively participated in club activities and often served as a volunteer.

Skills

Programming: Python(PyTorch), C++, C, Verilog, HTML/CSS/JS

Date Analysis: Date Analysis with Python