Jiakun Han

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Education

Sichuan University (SCU), Chengdu, China *Sep.2021 – Jun.2024*

Undergraduate in Computer Science and Technology (Top-notch program, a class of 15 selected elite students)
GPA: 3.88 / 4.00, **Average Score**: 91.23/100
Main Courses: Calculus (100/100), Linear Algebra (98/100), Probability Statistics (96/100), Discrete Mathematics (95/100), Programming in Python, Data Structure & Algorithm Analysis, Operating System, Computer Network, Theory of Optimization, Massive Data Processing and Intelligent Decision.

Research Experience

Institute of Network and Intelligent Systems, Sichuan, China *Sep.2022–Jan.2023*

Research Assistant **Supervisor**: *Prof.Yinjie Zhou*

Brief Introduction: We investigated the insider threat detection problem in real-world scenario and proposed a machine learning-based detection system which combines continual learning technique to ensure efficient learning from data stream and achieve effective real-time detection.
Key Responsibilities:

- Conducted literature reviews of existing studies in the domain of continual learning.
- Reproduced code for baseline models and conducted comparative experiments.
- Collaborating with colleagues to write and prepare graphs and charts for the research paper.

Achievement: A preprint paper under review.

Institute of Network and Intelligent Systems, Sichuan, China *Mar.2023–Present*

Research Assistant **Supervisor**: *Prof.Yinjie Zhou and Prof.Lu Zhang*

Brief Introduction: We explored the task of noise-aware time series forecasting and addressed the vulnerability to noisy data inherent in current forecasting approaches. To achieve this, we proposed a generic learning framework with novel constrain design and an feature correction module, which helps mitigate such noise impact and achieve more stable and accurate forecasting.
Key Responsibilities:

- Experimentally evaluated the performance of existing forecasting methods in the presence of noisy data.
- Reviewed studies of time series forecasting and denoising techniques and develop a feasible scheme.
- Conducted experimentation from multiple perspectives to verify the effectiveness of the proposed method and authored the research paper.

In progress: A manuscript for submission to International Joint Conferences on Artificial Intelligence later this year.

Awards & Honors

Annual Scholarship of the Programme for Excellant in Basic Disciplines *Sep.2023*
Gold Quality Award in Huawei Mindspore Application Project (2/11) *Mar.2023*
Second Prize in China Undergraduate Mathematical Contest in Modeling *Sep.2022*
Second Prize in Sichuan University Tencent Cup Programming Competition *June.2022*
First Prize in Lanqiao Cup Programming Competition *April.2022*

Skills

- Languages Skills: English (TOEFL, 100), Mandarin (Native).
- Programming: Python, Numpy, Pytorch, MATLAB, C++, HTML, CSS, JavaScript, LaTeX
- Academic Ability: Paper Reading, Literature Review, Experimentation Design, Academic Writing.