SICHENG FENG (冯思程)

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🎓 EDUCATION

Nankai University　　　　　　　　　　　　　　　　　　　　2021.9 – now
Bachelor of Computer Science　　Score: 91.24/100　　GPA: 3.79/4　　　　Tianjin, China

- Second-Year GPA: 3.87/4 (Score: 91.79/100)　　Third-Year GPA: 3.98/4 (Score: 94.79/100)
- Machine Learning, Parallel programming design, AI, Algorithms, OS, etc.

📖 PUBLICATION

[1] **Sicheng Feng**, Siyu Li, Luonan Chen* and Shengquan Chen*. "Unveiling potential threats: backdoor attacks in single-cell pretrained models" Be submitted to *Nature Methods* [GitHub Repo] [Paper]

📖 RESEARCH EXPERIENCE

Missing TS Backdoor Research Group　　　　　　　　　　　　　2023.9 – 2024.2
Research Assistant　　　　　　　　　　　　　　　　　　　　Nankai University

- Conducted backdoor attack experiments on various models (BRITS, LSTM, TCN, CNN, RNN) for time series classification (TSC), where the trigger design was primarily related to the missing rate in the time series. The approach proved effective. Plans for further optimizing the trigger design include adding advanced optimization techniques.

Huan Wang Research Group　　　　　　　　　　　　　　　　　2024.7 – now
Visiting Student　　　　　　　　　　　　　　　　　　　　Westlake University

- Led the project focused on oracle pruning.

🔧 PROJECT EXPERIENCE

Artificial Intelligence Internship Team Project [Code]　　　　　　　2023.5 – 2023.7
Team Leader　　　　　　　　　ChinaSoft-Nankai University Collaborative Program

- Led a team to successfully develop a medical knowledge graph intelligent question answering system utilizing the Neo4j database.
- Focused on implementing parallel data crawling, adeptly processing vast datasets (over 600K), creating data visualizations using Echarts, and developing HTML webpages.

University Integration Project (Course Projects) [Code]　　　　　　2023.3 – now
Founder　　　　　　　　　　　　　　　　　　　　　　　　　　　GitHub

- Replicated and improved scGMAI by employing parameter search and module replacement, achieving a TOP4 ranking in the ML course final project.
- Achieved a full score in the AI course final defense, where my team focused on the object detection task.
- Systematically organized and stored various code snippets.

⚙ PROFESSIONAL SKILLS

- Programming Languages: Python (Pytorch), C/C++, Rust, Shell, HTML.
- Languages: English - CET4 (608), CET6 (582); Mandarin.
- Other Skills: Latex/Markdown, Git, Adobe Illustrator/Drawio, Linux, Parallel programming, Compiler.
- Tools: ChatGPT-4, Copilot, OpenAI-API.

🏆 AWARDS & SCHOLARSHIPS

Provincial second prize in the National College Student Mathematical Modeling Competition	2023.12
First-class university scholarship	2023.10
National third prize in the Huashu Cup National College Students Mathematical Modeling Competition	2023.8
Team leader of the 'Excellent Team'	2023.7
The 'Distinction' level award (top 15% nationwide) in the 2019 AMC10 Competition	2019.9