SICHENG FENG(冯思程)

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🎓 EDUCATION

Nankai University   2021.9 – now
Bachelor of Computer Science   Score: 90.64/100   GPA: 3.78/4   Tianjin, China
- Second-Year GPA: 3.87/4 (Term Score: 91.79/100)   Third-Year GPA: 4/4 (Term Score: 93.72/100)
- Linear Algebra, ML, AI, Probability and Mathematical Statistics, Algorithms, Discrete mathematics, OS, etc.

💼 RESEARCH EXPERIENCE

Personal Research   2024.2 – now
                                                                                                         NKU

- The main research focus is on TS tasks, including forecasting and classification, and on LLMs. Additionally, I am interested in efficiently applying SFT to downstream tasks on LLMs, with a keen focus on AI in healthcare and AI in finance, and an interest in RL.
- I have extensively reviewed numerous academic papers and taken notes, which are available on my home-page.

Missing TS Backdoor Research Group   2023.9 – 2024.2
Research Assistant   NKU
- Collected datasets (UEA, Physionet_2012) and conducted preprocessing such as unifying timestamps for time series data, primarily utilizing the PyPOTS and TSDB libraries.
- Conducted backdoor attack Exps on various models(BRITS, LSTM, TCN, CNN, RNN) for TSC, where the trigger design was primarily related to the time series missing rate. The approach showed effectiveness. Plans for further optimization of the trigger design include adding optimization tricks.

🔧 PROJECT EXPERIENCE

Artificial Intelligence Internship Team Project [Code]   2023.5 – 2023.7
Team Leader   ChinaSoft-NKU
- Led team to successfully develop a medical knowledge graph intelligent question answering system utilizing the Neo4j database.
- Focused on implementing parallelized data crawling, adeptly processing vast datasets (600K+), utilizing the Django framework, crafting data visualizations using Echarts, and developing backend intelligent answering algorithms.
- Won the 'Excellent Team' award in the final defense competition.

University Integration Project(Course Projects) [Code]   2023.3 – now
Personal Projects   GitHub
- In the ML course, I developed and optimized several models including KNN, Naive Bayes, and decision trees. For the final project, I replicated and improved scGMAI by employing param search and module replacement, achieving third place in the course project.
- In an AI course, I focused on object detection techniques, working with R-CNN, Fast R-CNN, and exploring YOLOv7 for downstream applications.
- Systematically organized and stored various codes, including academic coursework and project work, on GitHub, where I have received more than 30 stars for my repositories.

⚙ PROFESSIONAL SKILLS

- Programming Languages: Python(Pytorch, scikit-learn, Pandas, NumPy, TensorFlow), C/C++, Rust, HTML, Shell, SQL.
- Languages: English - CET4 (608), CET6 (582); Mandarin.
- Other Skills: Latex/Markdown, Git cooperation, parallel programming, compiler design
- Tools: ChatGPT-4, Copilot, OpenAI-API.

🏆 AWARDS & SCHOLARSHIPS

Awarded provincial second prize in the National College Student Mathematical Modeling Competition 2023.12

Awarded first-class university scholarship 2023.10

Awarded national third prize in the Huashu Cup National College Students Mathematical Modeling Competition 2023.8

Led a team awarded the 'Excellent Team' title 2023.7

Awarded provincial second prize in the 2020 National High School Mathematics League 2020.10

Achieved the "Distinction" level award (top 15% nationwide) in the 2019 AMC10 Competition 2019.9