Kunjun Shu

CONTACT INFORMATION

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Shanghai, China
Kunjun Shu's { Personal Homepage / Github / Technology Blog / Zhihu }

RESEARCH INTERESTS

Intersection of Statistics and Machine Learning & Deep Learning, as well as AI Agent Development.

EDUCATION

Fudan University, Shanghai China
B.S. in Statistics and Data Science, GPA: 3.83 / 4.00 **Expected 2027**

- Coursework: *Regression Analysis (A+)*, *Data Structure and Algorithms (A)*, *Python Programming (A)*, *Operations Research (A)*, *Multivariate Analysis (A)*, *Mathematical Analysis (A)*, *Probability Theory and Mathematical Statistics (A)*, *Sampling Survey (A)*.

HONORS AND AWARDS

The 2nd Prize Scholarship (ranked 27)

The 3rd Prize Scholarship (ranked 30)

The 14th and 15th National Mathematics Competition for College students: 2nd Prize (Shanghai)

RESEARCH EXPERIENCE

Research Assistant *AI Medical General Doctor, AIMGD*

Supervised by Wenwen Li, I have developed an AI Agent (AI Medical General Doctor, AIMGD), whose target is to leverage Large Language Models (LLMs) to optimize patient-provider communication. The project has undergone preliminary trials in several community hospitals. More information is available on the website: link.

- Designed and implemented an information entropy gain algorithm to mine core symptoms.
- Applied FastAPI framework and asynchronous programming to improve performance.

PROJECTS

Binary Classification Model based on Chest CT Images [Code]
With MaxPooling for dimensionality reduction, applying Logistic Regression with LASSO regularization, the model achieved an accuracy rate of up to 98.30% on the test dataset (demonstrating comparable performance to CNN while using much fewer parameters).

CIFAR-10 Classification (ResNet18) [Code]
Applying ResNet18 pre-trained model, I established a classification for CIFAR-10, with accuracy rate 0.76750 in Kaggle competition.

Stock prediction model based on neural network LSTM [Code]
Applying LSTM, I developed a Stock prediction model based on neural network LSTM.

Some Notes
I am sharing some notes at my blog isKage'Blog and Zhihu

- Building Neural Networks with PyTorch: Blog link or Zhihu link.
- Data Structure and Algorithms Notes: Blog link or Zhihu link.
- SQL Notes: Blog link or Zhihu link.
- R Programming Notes: Blog link or Zhihu link.

COMPUTER SKILLS

- Programming: Python (PyTorch, Pandas, Numpy), R, C
- Database Management: SQL, MySQL
- Web & API: FastAPI, Django, HTML, CSS
- Applications: Conda, Git, LaTeX, Markdown