Kunjun Shu

CONTACT INFORMATION	Fudan University Shanghai, China	22307130118@m.fudan.edu.cn Kunjun Shu's Homepage

RESEARCH INTERESTS

Machine Learning, Statistical Analysis in Medical Diagnostics, and AI Agent Development

EDUCATION

Fudan University, Shanghai China

B.S. in Statistics and Data Science, GPA: 3.82 / 4.00 — Expected 2027

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

HONORS AND AWARDS

The Second Prize Scholarship (ranked 27)

The Third Prize Scholarship (ranked 30)

The 14th National Mathematics Competition for College students: Second Prize (Shanghai)

The 15th National Mathematics Competition for College students: Second Prize (Shanghai)

RESEARCH EXPERIENCE

Fudan University, Shanghai, China — April 2025 - present

AI Medical General Doctor, AIMGD [Code]

Supervised by Wenwen Li, I am currently developing an AI Agent, whose target is to leverage Large Language Models (LLMs) to optimize patient-provider communication.

- Collected the medical data.
- Designed machine learning model for extracting key features and patterns.
- Improved the website design under Django framework.

PROJECTS

Binary Classification Model based on Chest CT Images [Code]

Using Logistic Regression with LASSO regularization, I developed a Binary Classification Model based on Chest CT Images. The model achieved an AUC of up to 98.30% on the test dataset.

Stock prediction model based on neural network LSTM [Code]

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

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.

Data-Driven Business Decision Platform [Code]

Developed a Data-Driven Business Decision Platform using Python and Django, focusing on applying fundamental data structures and algorithms to optimize system performance.

Shared Learning Exchange Platform [Code]

Based on Django + MySQL framework, I developed a web prototype - Shared Learning Exchange Platform.

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, R, C
- Database Management: SQL, MySQL
- Web: Django, HTML, CSS
- Applications: LaTeX, Markdown