Yu Zhu

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🎓 postgraduate in automation   🏛 Zhejiang University   2002 Jun   📍 HangZhou

Junior postgraduate student in automation,ZJU-EE, with a comprehensive possession in mathematics and auto-control science. Have a good grasp of programming language such as C, C++, python etc. Experienced in embed system development and equipped with AI scientific experience, big-data analysing experience. Enthusiastic in social activities. Attained scholarship of ZJU and Government of ZheJiang Province several times.

🔧 Competences & Languages

Programming	Python, C, C++, matlab
Tools	SSH, Git
Data Analysis	Pandas; Matplotlib; pytorch, sklearn;
Embeded System	STM32,arduino-uno,LoRa,ESP32
🔤 Languages	TOEFL 100
📋 GPA	3.94/4.0, 89.2/100

🎓 Education

September 2020 June 2024	Electronic Engineering, **Zhejiang University** Bachelor in Automation

⚙️ Professional Skills

> training and fine-tune AI model using pytorch, keras, etc.
> embed system development, based on FreeRtos
> C++, PyQt desktop program developing
> master in control science and system designing

⚛️ Research Experience

> `AI backdoor attack` (AI)
> research on the domain of attacking and defending Backdoor Attack in AI classifier. We are now focusing on the possibility to leverage diffusion technique as a way of backdoor insertion on some typical model like ResNet18

</> Projects Experience

> `news material classification`: (AI)
> A project in AIML class. We adopt two way in NLP: Word2Vec+TextCNN and Bert. Bert reaches high accuracy in the classification task of Chinese news material
> `heart disease prediction`: (data process)
> A competition on Kaggle using data like gender, age, etc. to predict the possibility of suffering heart diseases. Tried some classic method in data processing like DicisionTree
> `Coffee-Machine`: (embed system)
> Build a online coffee machine using embed system chips STM32 and ESP32 and some hardware. Able to make coffee according to command via Internet
> `geo-sketchpad`: (C++) Construct a geometer sketchpad app using C++

🏅 Rewards

> `second prize scholarship of ZJU, 2021`
> `scholarship of Zhejiang province, 2021,2022`
> `first prize of national mathematical contest of Zhejiang province, 2021`