










Yu Zhu

 (+86)173-0098-7993  zhuyu.email@qq.com  github.com/ZHUYU20020601
 undergraduate in automation  Zhejiang University  2002 Jun  Hangzhou

Junior undergraduate 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;
Embed System	STM32, arduino-uno, LoRa, ESP32
 Languages	TOEFL 100
 GPA	3.94/4.0, 89.2/100

Education

September 2020	Electronic Engineering, Zhejiang University
June 2024	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 DecisionTree
- › **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