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 Development	STM32,arduino-uno,LoRa,ESP32
🅰️🈂️ **Languages**	**English** — TOEFL: 93 CET6: 578
📔 **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 LSM, DicisionTree, and train the model using AutoDL
> 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++