BoYang ZHENG

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🎓 Undergraduate of Computer Science and Technology 🏛 Shanghai Jiao Tong University (SJTU)

📅 2003 April. 📍 Shanghai 🔗 https://bytetriper.com.cn/

Highly-motivated undergraduate in Computer Science and Technology with good foundations of math. Passionate about deep learning. Currently research interests are Computer Vision, Generative Models, Multi-modal Learning and Adversarial Attacks.

🔧 Competences & Languages

GPA 90.22/100, rank 9/33 in ACM Honor Class 2021

🔠 **Languages** **English** — CET6: 639/710

🎓 Education

present	ACM Honor Class 2021, **Shanghai Jiao Tong University**
September 2021	Undergraduate in Computer Science and Technology

</> Experiences & Projects

> AI-related experiences: **Hands-on experience** with :
>   – PEFT(parameter efficient fine-tuning) Diffusion Models (Stable-Diffusion specifically).
>   – PEFTing LLMs (Llama2 specifically) on vision tasks.
>   – Building and training CNN, RNN, LSTM, Transformer, ViT etc. (implemented by pure PyTorch).

> CPU: (Verilog) A CPU with tomasulo algorithm, branch prediction and out-of-order execution. Written with verilog and runs on an actual FPGA.

> Compiler: (java) An O0 level, graph-coloring based compiler for a self-defined language called Mx*, which resembles Java much.

⚙ Papers

> Improved AdvDM: <Improving Adversarial Attacks on Latent Diffusion Model> : A research about crafting general and strong adversarial examples against latent diffusion models (especially *Stable Diffusion*). [Co-first Author]

📖 Selected Courses

> Computer Programming: **94/100**
> Data Structure: **94/100**
> Machine Learning : **95/100** (top one paper award)
> Algorithm: **99/100**.
> Data Mining: **97.6/100** (top one in kaggle contest)
> Mathematical Analysis: **96/100**
> Computer Vision **100/100** (course work paper accepted by ICMSSP 2024)