BoYang ZHENG

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with good foundations of math. Passionate about deep learning. Currently research interests are Computer Vision, Generative Models, Multi-modal models 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`: <Understanding and Improving Adversarial Attacks on Latent Diffusion Model> : A research about crafting general and strong adversarial examples against latent diffusion models (especially *Stable Diffusion*). This paper is under review of ICLR 2024. [Co-first Author]
- `[Course Work] Latent Magic`: <Latent Magic: An Investigation into Adversarial Examples Crafted in the Semantic Latent Space>: A reseach into adversarial attacks crafted in latent space, which purposed the FIRST evaluation metric in this field. This paper served as the project of machine learning class. [Only 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**