Chenxuan Miao

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🎓 Education

Zhejiang University (ZJU), Hangzhou, China   2022 – Present
B.S. in Automation (EE), expected June 2026

Scores

GPA: 89.78(up to now)   *Rank:* 4/56

Language

CET4: 617   *CET6:* 576
*TOEFL:*98   R:30 L:24 S:19 W:25

♡ Honors and Awards

2nd *Prize*, Award on 17th National University Student Social Practice and Science Contest on EnergySaving and Emission Reduction(See our work)   Jun.2024
1st *Prize*, Award on 15th National Mathematics Competition for college students(Zhejiang Province) Dec.2023
2nd *Prize*, Award on Physics Innovation Competition for college students in Zhejiang Province   Dec.2023
2nd *Prize*, Scholarship of Zhejiang University   Oct.2023
Outstanding Student, Zhejiang University   Oct.2023

👥 Project

Video editing   Processing

- Try to use some 3D-render software to synthetic video editing data and design a video edting model.

Video prediction   Done

- Generative video prediction based on diffusion transformer.
- Deterministic video prediction with multi-head training based on spatial-temporal model.

Image caption   Done

- Implement image captioning with vanilla RNNs, LSTMs and Attention LSTMs.

Network visualization   Done

- Implement saliency map and adversarial attack on given images using gradient ascent.

Mini AlphaGo   Done

- Implement an AIPlayer for reversi game based on Monte-Carlo tree search algorithm.

👥 Experience

Zhejiang University   Processing

Research intern at IoTCam Lab in electrical engineering college, advised by Prof. Donglian Qi.

Cambridge University   Aug. 2024

Machine Learning and Artificial Intelligence Summer Course, taught by Prof. Nick Lane.

⚙ SKILLS

- Programming Languages: C == Python > Java > C++
- Familiar with using LaTeX to write reports and papers
- Familiar with basic git and Github
- Good at MATLAB and some specific Python framework like PyTorch