

Personal Information

Name: Feixiang Tao
University: SUSTech
Homepage: <https://tensorfieldx.space/>

Year: Freshman
Major: Undeclared
GitHub: <https://github.com/kevin258258>

Education

SUSTech Undergraduate, Undeclared

2025 Fall – Present

Freshman Fall GPA: 3.91; Rank: 60 / 1363

- **Research Interests:** RL, Agentic RL, LLM pre-training / post-training, Physics / Gen Model.

Projects & Learning Experience

My-minimind: MiniMind Training Pipeline Reproduction

LLM pre-training /
post-training

- Reproduced the open-source MiniMind project, manually tracing and documenting the full pipeline from data loading, training sample organization to model pre-training and post-training.
- Focused on implementation details in the training chain, understanding the complete end-to-end loop of training a small language model from scratch.

CS336: Language Modeling from Scratch

Self-study / Assignment

LLM Arch, MLSys

- Systematically studied Stanford CS336 course content, organized lecture notes, and completed the main code implementation of Assignment 1.
- Implemented core LLM components from scratch, including a BPE tokenizer, training loop, and basic experiment configuration.

CS224N: Natural Language Processing with Deep Learning Assignment Implementation

Self-study / Assignment

NLP Fundamentals

- Studied Stanford CS224N natural language processing course and completed related assignments to strengthen NLP fundamentals and deep learning modeling training.
- Through course assignments, touched on topics such as word2vec, attention, RNN, Transformer, establishing a knowledge bridge from traditional NLP to modern LLMs.

CS285: Deep Reinforcement Learning Assignment Implementation

Self-study / Assignment

RL

- Systematically studied Stanford CS285 deep reinforcement learning course, completed assignments, and learned methods such as Policy Gradient, model-based RL, as well as LLM RLHF-related content.
- Studied the algorithmic details and implementation of commonly used RL algorithms such as PPO, DPO, TRPO, GRPO, etc.

MIT 6.S184: Flow Matching and Diffusion Models

Self-study

Gen Model

- Studied MIT 6.S184 course, covering generative model algorithms such as diffusion models, flow matching, etc.

Honors, Competitions & Other

- ASC Student Supercomputer Challenge, Second Prize.