Muyan Weng

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EDUCATION

The Shanghai Jiao Tong University (SJTU) Shanghai, China

B.S. in Computer Science and Technology (IEEE Pilot Class) Sept 2021 - Jun 2025

- **GPA:** 3.80/4.30
- **Relevant Courses:** Linear Algebra, Optimization, Data Structure, Machine Learning, Principle and Methods of Program Design, Probability and Statistics, Artificial Intelligence Principles and Applications
- **Honors:** Third Prize Shanghai Jiao Tong University School-level Scholarship (2022)

RESEARCH EXPERIENCE

Beyond Positive History: Re-ranking with List-level Hybrid Feedback Shanghai, China

Supervisor: Prof. Yong Yu, APEX Data and Knowledge Management Lab, SJTU Nov 2023 - Aug 2024

- Designed a re-ranking model efficiently utilize users' list-wise behavior history to optimize recommendations.
- Incorporated positive and negative feedback to model and align user behavior patterns with current candidates via contrastive learning.
- Factored in the temporal evolution of user interests to enhance model adaptability.
- Paper "**Beyond Positive History: Re-ranking with List-level Hybrid Feedback**" is submitted to WWW'25 (Co-first author).

Enhancing Recommender systems via LLMs Shanghai, China

Supervisor: Prof. Weinan Zhang, APEX Data and Knowledge Management Lab, SJTU Sep 2023 - Nov 2023

- Aimed to utilize the Large Language Models to enhance the performance of recommender systems.
- Mainly worked on item clustering to reduce computational load and enable the system to scale effectively to handle large-scale datasets.
- Paper "Efficient and Deployable Knowledge Infusion for Open-World Recommendations via Large Language Models" is submitted to TORS in August 2024.

Explaining Neural Networks by Using Robust Interactions Shanghai, China

Supervisor: Prof. Quanshi Zhang, XAI Lab, SJTU Feb 2023 - Aug 2024

- Aimed to extract faithful interactions between input variables encoded by a deep neural network.
- Develop a new method to extract noise-robust interactions encoded by a DNN. Our interaction ensures the stability and consistency of explanations.
- Paper "Explaining Neural Networks by Using Robust Interactions" is under submission.

INTERNSHIP EXPERIENCE

Enhancing the Serendipity of Homepage Recommendation via LLMs Beijing, China

Algorithm Research Intern, Taobao and Tmall Group, Alibaba Group Holding Limited Jul 2024 - Present

- Aimed to enhance the serendipity of homepage recommendations on Taobao through the reasoning capabilities of large language models and external knowledge, using various methods to continuously optimize user experience, improve recommendation accuracy, and increase user retention rates.
- Assisted in constructing the complete link, conducted experimental comparisons with the baseline model, and helped write the paper.
- Paper will be released next year.

COMPUTER SKILLS

- **Programming:** Python, C++, Pytorch
- **English ability: CET4:601, CET6: 570, TOEFL:102(R29+L25+S21+W26)**
- **Github: https://github.com/Ray0202**
- **Personal Website:** https://ray0202.github.io/