



Yibin Liu

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👤 Students in school 📁 NLP, HCI



SUMMARY

I am a sophomore studying Artificial Intelligence. I possess strong communication and coordination skills, along with a foundational understanding of research methodologies. I am adept at interacting with others and can quickly adapt to new environments.

My research interests lie in machine learning, NLP and HCI, with a particular focus on improving RAG framework integration and enhancing the reasoning capabilities of large language models.

I have experience in natural language processing and machine learning, with strong skills in large model prompt tuning. I am proficient in using frameworks such as Pytorch, Langchain, and LLaMAIndex. Additionally, I am competent in working with Linux systems, Git, and Huggingface.

EDUCATION

Northeastern University 985 211 Double 1st-Class 2022.09 - 2026.06
Artificial Intelligence Bachelor School of Future Technologies Shenyang
Achievements: 85/100. Sophomore year

SKILLS, CERTIFICATIONS & OTHERS

- **Skills:** Python, Pytorch, NLP, C/C++ ,Javascript, Linux, Langchain, RAG, PowerPoint, English (CET4/6)

PROFESSIONAL EXPERIENCE

Information Retrieval Group, Northeastern University 2023.10 - 2024.04
Research interns OpenMatch Shenyang
Guided by Associate Professor [Zhenghao Liu](#) from Northeastern University, I am dedicated to exploring retrieval-augmented methods for meeting the knowledge needs of large models and enhancing the reasoning capabilities of these models.

Datawhale open source communities 2023.07 - 2023.09
Promoting ambassador Remote
I am responsible for promoting high-quality, free AI courses and open-source projects to a wider audience. Additionally, I am involved in establishing an artificial intelligence community within the school to foster openness and sharing in AI education.

Paper

ActiveRAG: Revealing the Treasures of Knowledge via Active Learning (preprint) 2024.02
Zhipeng Xu, Zhenghao Liu, * Yibin Liu *, Chenyan Xiong, Yukun Yan, Shuo Wang, Shi Yu, Zhiyuan Liu, Ge Yu
Link: <https://arxiv.org/abs/2402.13547>

Self-Guide: A LLM Reasoning Enhancement Method Based on Self-Guided Planning, CCL2024 (Under review)
* Yibin Liu *, Songcheng Xu, Zhenghao Liu, Yukun Yan, Shi Yu, Shuo Wang, Liner Yang, Yu Gu, Ge Yu
Link: <https://openreview.net/pdf?id=7tUf4zqmkV>

The race experience

Finalist of Mathematical Contest in Modeling / Interdisciplinary Contest in Modeling (MCM/ICM 2024) 2024.05
Third Prize in 2023 RoboCup China Competition Simulation 3D League Simulation (RoboCup 2023). 2023.10
Second Prize in 2023 FIRA SimuroSot China Competition (RoboCup 2023). 2023.10

PROJECT EXPERIENCE

BenCao RAG Medical Intelligent Assistant
BenCao RAG Medical Intelligent Assistant is a large-model-based medical knowledge Q&A system. It provides comprehensive, accurate, and personalized medical information services to users by integrating context awareness, internet access, knowledge graphs, and retrieval-augmented generation. Open source repository: https://github.com/10-OASIS-01/BenCao_RAG

HONORS & AWARDS

Future Technology Taihu Scholarship 2023.11
Excellent student scholarship at Northeastern University 2023.09