

JINXIANG XIE

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🎓 EDUCATION

Beijing Jiaotong University

2021.09 ~ 2025.06

- Bachelor of Science - Information and Computing Science

📖 PUBLICATIONS

DSGram: Dynamic Weighting Sub-Metrics for Grammatical Error Correction in the Era of Large Language Models.

- In The 39th Annual AAAI Conference on Artificial Intelligence (AAAI 2025)
- **Jinxiang Xie**, Yilin Li, Xunjian Yin, Xiaojun Wan.

🏢 INTERNSHIP EXPERIENCE

Research Intern, Microsoft

2024.08 ~ Present

Leveraged LLMs for evaluating and enhancing text summarization capabilities; developed a text analysis AI agent.

- Designed innovative metrics using Kendall τ and LLMs to evaluate Excel Copilot's text analysis stability, achieving up to a 21.5% improvement in stability.
- Built an agent workflow generation framework, improving Excel Copilot's text analysis functionalities.
- Developed a novel prompt framework, achieving a 13% performance enhancement and a 56% reduction in latency.

Research Intern, Peking University

2023.11 ~ 2024.07

Proposes a dynamic weight evaluation framework; developed metrics for Grammatical Error Correction models.

- Introduced new sub-metrics for GEC evaluation, reducing variance in sub-metric correlations by a factor of 25.3.
- Presented two datasets: DSGram-Eval, created through human scoring, and DSGram-LLMs, employed GPT-4 to annotate a dataset simulation human scoring.
- Developed DSGram, a dynamic weighting-based GEC evaluation method achieving a 92.7% agreement with human evaluation on public datasets, establishing a new state-of-the-art.

Summer Workshop Student, National University of Singapore

2023.05 ~ 2023.07

Collaborated with team members to build an automatic cat-feeding robot.

- Annotated a dataset, trained a model for recognizing cat breeds and integrated the model into a robot.
- Designed and implemented a robot capable of autonomous navigation and feeding using ArUco code recognition.

Research Training Program, Beijing Jiaotong University

2023.04 ~ 2024.04

Explored prompt engineering techniques on lightweight LLMs. Fine-tuned LLMs tailored to specific industries.

📋 SKILLS

- **Programming:** Python, C++, C#, \LaTeX
- **English Proficiency:** IELTS band 7
- **Mathematics:** Advanced Algebra, Probability Theory, Optimization Theory and Algorithms, etc.
- **AI:** Large Language Models, Machine Learning, Natural Language Processing, etc.
- **Data Science:** Pandas, Numpy, Matplotlib, etc.

🏆 AWARDS

- **Honorable Mention** of 2024 Mathematical Contest In Modeling
- **First Prize** of 2023 BJTU-Hollysys Science and Technology Innovation Cup Competition
- **Second Prize** of 2024 National College Student Innovation and Entrepreneurship Competition in Beijing

✳️ EXTRACURRICULAR ACTIVITIES

Microsoft Learn Student Ambassador, Microsoft

2024.01 ~ Present

Launched an AI Project to simplify the invoicing process using Retrieval Augmented Generation, sponsored by Microsoft for Startup Hub with more than \$1000.

Executive Chairman of Student Chapter, Beijing Jiaotong University

2023.05 ~ 2024.06

The summer social practice team by me was awarded by the Beijing Municipal Government.