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Current Location	Shanghai, China

Personal Statement

As a final year undergraduate student at Nanjing University of Science and Technology, I have honed my expertise in Machine Learning, focusing on finding solutions to better adapt pre-trained foundation models into downstream tasks across modalities. My passion has been further validated through my contributions to conference papers at ECAI 2024, where I introduced dynamic multimodal prompt tuning for VLM-guided point cloud models. Currently, I am eager to pursue a Ph.D., seeking opportunities to delve deeper into the cutting-edge world of AI research.

Education

2021.09 - 2025.6 **Nanjing University of Science and Technology** **Data Science and Big Data Technology**

QS China 41st, key university of "Project 211" **B. S. in Engineering** **3.43/4**

Research Publications

The papers were accepted recently, the Camera-ready versions are pending. Submissions are available for review **here**.

- Xiang Gu, et al. Dynamic Multimodal Prompt Tuning: Boost Few-shot Learning with VLM-Guided Point Cloud Models, ECAI 2024. (27TH EUROPEAN CONFERENCE ON ARTIFICIAL INTELLIGENCE paper id M2932)
- Yifei Wang, Jixiang Miao, et al. TriEn-Net: Non-parametric Representation Learning for Large-Scale Point Cloud Semantic Segmentation, PRCV 2024 (The 7th Chinese Conference on Pattern Recognition and Computer Vision PRCV 2024 paper id 1340)

Research Experience

2023.01 - 2024.4 **3D Intelligent Perception Defense in Autonomous Driving** **Team member**

- Under the guidance of Professor Shuchao Pang from Nanjing University of Science and Technology, the research involves processing point cloud data obtained from LiDAR using multimodal large models. The study analyzes the deficiencies in existing models, designs improved modules, enhances the performance of point cloud large models under few-shot learning, and improves the model's environmental perception capabilities in autonomous driving scenarios. This work is supported by the National Key Research and Development Program, the National Natural Science Foundation of China, and the Jiangsu Province Autonomous Driving Technology Innovation and Application Engineering Research Center.
- I served as the first author for the paper at the ECAI 2024 conference, and I contributed as the fourth author for another paper at the PRCV 2024 conference. For more details, please refer to the 'Research Publications' section above.

Reward

- Third Prize in the 11th Teddy Cup Data Mining Challenge (National Level)
- Third prize of the 13th Blue Bridge Cup National Software and Information Technology Professionals Competition (Provincial Level).
- Third-class Scholarship of Nanjing University of Science and Technology

Additional Information

- English: IELTS 7.0, CET-6 599, CET4 607
- Working Experience: Project Management Engineer (Intern) at Luxshare iTech (Zhejiang) Co., Ltd 2024.5-2024.6
- Web3 Address && Website: **iloveyou1314.eth**