Yiwen Lu

Beijing, China — ylu579584@gmail.com — EvenEureka.github.io — (86)18756553296

EDUCATION

Beijing Jiaotong University, Beijing, China   Enrolled: Sept 2021 — Expected: Jul 2025
Computer Science   GPA: 3.74/ 4   88.4/ 100
Key Courses: Principles of Database System, Big Data Technology, Deep Learning(A), Discrete Mathematics(A), Probability Theory and Mathematical Statistics(A), Numerical Methods(A), Introduction to Artificial Intelligence(A)

RESEARCH EXPERIENCE

Institute for Artificial Intelligence, Peking University   Advised by: Aming Li
Research Assistant   Nov 2023 - Present

- Researching on swarm intelligence and evolutionary game theory.
- Studied the game strategy update mechanism under incomplete information on complex networks.

Institute of Network Science and Intelligent Systems, Beijing Jiaotong University Advised by: Huaiyu Wan
Research Assistant   Apr 2023 - Present

- Researching on data mining and deep learning.
- Designed Spatial-Temporal Contrastive Diffusion Model and customized Check-in Sequence for LLMs.

INTERN EXPERIENCE

Huawei Technologies Co., Ltd.   Beijing, China
Intern, Huawei Kunpeng Developer Program   Sept 2023 - Jan 2024

- Collaboratively engaged in the development process of the Kunpeng BoostKit mathematical library, optimized high-performance mathematical functions by 15%.

IFLYTEK Co.,Ltd.   Hefei, China
Summer Intern, Software Engineer   Jul 2023 - Aug 2023

- Engaged in the daily operations of the AI Contact Center development team, responsible for writing and debugging.
- Completed the development of 3 feature modules and resolved 10 critical bugs, enhancing product performance.

PROJECTS

Check-in GLM   Dec 2023 - Present

- Customized Spatial-Temporal data(Check-in Sequence) for LLMs.
- Used LLMs for prediction and bulk generation of spatio-temporal data.

Spatial-Temporal Contrastive Diffusion Model for Check-in Sequence Generation   May 2023 - Feb 2024

- Encoded check-in sequences and employed interdependent diffusion models to capture data feature.
- Integrated these models through contrastive learning, enhancing their interrelation and coherence.

3D Object Detection based on Point Cloud, Competition Project   Sept 2023 - Dec 2023

- Applied sparse convolutional backbones to extract multi-channel transformed equivariant voxel features.
- Aligned and aggregated these equivariant features into lightweight and compact representations.

A Hybrid Transformer Architecture for Medical Image Segmentation, Course Project Jun 2023 - Aug 2023

- Integrated attention into neural networks for enhanced medical image segmentation.
- Applied self-attention modules in both encoder and decoder to capture remote dependencies of different scales.

HONORS and AWARDS

Excellent Acadamic Scholarship Third Class (top 15% of School) x2   Oct 2023
Student's Innovation Training Program, Sponsored by the Ministry of Education May 2023
Outstanding Student Leader in Beijing Jiaotong University   May 2023
Beijing Big Data Skills Competition Intelligent Connected Track, 4th Place Nov 2023
China Undergraduate Mathematical Contest in Modeling, Provincial 2nd Price Sept 2023
The Chinese Mathematics Competition, Provincial 2nd Price   Nov 2022
Chinese Girls' Mathematical Olympiad, Bronze Price   Aug 2020

SKILLS

- **Language Skills:** TOEFL: Total:87 R:21 L:23 S: 21 W:22
- **IT Skills:** Python, C++/ C, Java, R, SQL, Deep Learning, Reinforce Learning, Hadoop, HTML/CSS
- **Communication Skills:** Chairman of the Scientific Research Platform, Student Science and Technology Association, Beijing Jiaotong University