https://srceventt.github.io/

EDUCATION BACKGROUND

• ShanghaiTech University, China

Sept. 2022 - Jun. 2026 (Expected)

Bachelor of Engineering in Computer Science and Technology; GPA: 3.68/4

• University of Wisconsin-Madison, USA

Jan. 2025 - May. 2025 (Expected)

Thematic Visiting International Student Program (VISP) in Computer Sciences

Research Project Experience

• Predicting the interactions of Weibo

Nov. 2024 - Jan. 2025

Mobile: +86 13611719830

- Six months of Weibo data were analyzed to forecast engagement metrics such as forwards, comments, and likes to be received 24 hours after publishing.
- Developed a four-category user classification system (Zombie, Most Zombie, Likely Zombie, and Active Users) that improved prediction accuracy from 20.08% to 28.5%, or by 25.81%.
- Proposed the FRESH framework, which incorporates XGBoost and Random Forest with 39 estimators. It eventually scored 31.51% and placed 7th among all competition participants on Tianchi.

Advised method for quadratic programming

Dec. 2024 - Jan. 2025

- Reviewed 23 quadratic programming solvers developed over the last 20 years and tested them against 100 independent problem instances of 100 variables each.
- \circ Improved the IRWA algorithm with dual penalty parameters, M_1 , M_2 , for different types of constraints, achieving convergence improvement by 1.5 times against the standard implementation.
- Tested 11 state-of-the-art solvers; the commercial implementations clarabel, daqp had sub-0.01 second solving times, while our ADAL/IRWA algorithms gave better constraint satisfaction.

Internship Experience

• Mobile Perception Lab, ShanghaiTech University, China

Oct. 2023 - Jul. 2024

Research Assistant under Prof. Laurent Kneip

- Research Contribution: Contributed to "DynOPETs: A Versatile Benchmark for Dynamic Object Pose Estimation and Tracking in Moving Camera Scenarios", currently under review at IEEE Robotics and Automation Letters (RA-L).
- Dataset Creation: Created a large-scale dataset for object pose estimation, ensuring high-quality data acquisition across various experimental scenarios for research purposes.
- Object Pose Estimation: Worked on cutting-edge object pose estimation research, helping design a comprehensive data processing pipeline based on extensive literature review.
- **Pipeline Optimization**: Improved data processing workflows through algorithmic innovations and tool optimizations, significantly enhancing the project's efficiency.

• Knowledge Computing Laboratory, USTC, China

Aug. 2024 - Present

Research Assistant under Prof. Yi Zhou

- Multimodal Large Language Model Development: Fine-tuned LLaVA-v1.5-7b model using prompt-image-answer triplets; implemented answer re-ranking and evaluation metrics to improve model performance.
- Financial Data Visualization: Reconstructed ETF time series charts with technical indicators (white/yellow lines, red/green bars) and smoothed curves for better representation of financial data.
- Financial Model Application: Deployed and fine-tuned TimesFM for stock market analysis, assessing its performance in identifying entry points and quantifying returns.

AWARDS & ACTIVITIES

• Third Prize in Men's Team Bowling, Shanghai Student Sunshine Sports League (Higher Education Division), 2024

Skills & Awards

- Languages: Chinese (Native), English (Fluent, TOEFL 100)
- Computer Skills: Python; C/C++; MATLAB; Javascript/Html/CSS; SQL

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