阳雨哲 Yuzhe YANG

About Me:

A junior CSE student with a keen interest in deep learning. Currently exploring GCN, LLM, and NLP.

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GitHub: github.com/tobyyang7

Kaggle: kaggle.com/tobyyang7

Homepage: tobyyang7.github.io (to be continued...)

Education

The Chinese University of Hong Kong, Shenzhen

School of Data Science *Expected Graduation: May 2025*

Bachelor of Science in Computer Science

Core Curriculums: Data Structure, Operating System, Computer Architecture, Machine Learning, etc.

Skills

Programming Languages: Python, PyTorch, C++, RISC-V, HTML, JavaScript, React

Technologies: Git, VS Code, MATLAB, LaTeX, Linux, CLI

Other Tools: Photoshop, Lightroom, Office, Power BI, Figma

Languages: English (Fluent), Mandarin (Native)

Hobbies: Photography, Sports

Work Experiences

China Telecom Beijing Research Institute *Jan 2024 - Mar 2024*

- Intern at the AI Large Model Research Team
- Analyze a technology's trends, applications, and industry impact

Research Experiences

FAST-CA: Fusion-based Adaptive Spatio-Temporal Learning with Coupled Attention for Airport Network Delay Propagation Prediction *Aug 2023 - Nov 2023*

SDS, CUHKSZ

- Advised by **Prof. Jianfeng Mao**, submitted to the ***Information Fusion*** journal
- Refined the deep learning model for the prediction of airport network delays
- Spatio-temporal data analysis and illustration
- Deep Learning, GNN, GCN, PyTorch, PyTorch Geometric

Research in Conditional Spatio-Temporal Graph *Jan 2024 - Current*

SDS, CUHKSZ

Deep Learning Approach for Early Predicting and Controlling Network Flow in SDN *Jan 2024 - Current*

ICNLAB, PKUSZ

Projects Experiences

***MCM:* Evaluation Model of Light Pollution by Multi-conditional AHP** *Feb 2023*

- GIS-data analysis, Mathematical modeling
- Analyzed the level of light pollution in the area by population data, regional income data, etc.
- Explored the multifaceted impacts of light pollution on the region
- GeoPandas, Folium

***Kaggle:* Open Problems - Multimodal Single-Cell Integration** *Feb 2022 - Apr 2022*

- Machine Learning, Data Analysis
- Predict how DNA, RNA & protein measurements co-vary in single cells
- Silver Medal

***Kaggle:* Happywhale - Whale and Dolphin Identification** *Aug 2022 - Nov 2022*

- Machine Learning, Data Analysis
- Identify whales and dolphins by unique characteristics
- Silver Medal

Game Theory Analysis of SEO Strategies: From Methods to Models *Nov 2023 - Dec 2023*

- Search Engine Optimization
- Game theory modeling

Machine Learning Project *(in class)* *Feb 2023 – May 2023*

- Data Analysis, Data Visualization
- Python: numpy, pandas, matplotlib, sklearn, scipy, etc
- Implemented model: Linear Regression, SVM, Decision Tree, K-Means, PCA, etc.

CPU Circuit design *(in class)* *Jul 2023*

- Verilog, RISC-V
- Implemented simple RISC-V instructions through circuit design and realized CPU pipelining

Activities

MUSE College Student Assistant: Outstanding College Contribution Award *Sep 2021 - Sep 2023*

MUSE College Basketball Team *Sep 2021 - Sep 2023*

P.I.C. Photography Club *Sep 2021 - Jun 2022*