Zihao Ye

Personal Email | School Email| Website

EDUCATION

Carnegie Mellon University, Pitssburgh, USA 09/2024 – Present

M.S. Artificial Intelligence Engineering – Information Security

Beijing University of Posts and Telecommunications, Beijing, China 09/2019 – 06/2023

B.Eng. Telecommunication Engineering

PUBLICATION

Improving Image de-raining Models using Reference-guided Transformers

Zihao Ye, Jaehoon Cho, Changjae Oh

2024 IEEE International Conference on Image Processing (ICIP)

RESEARCH EXPERIENCE

Tsinghua Statistical Artificial Intelligence & Learning Group 04/2022 – 01/2024

PyTorch | C++ | CUDA *Supervised by Prof. Jianfei Chen*

- Utilized fully quantized training for low-precision training on the Diffusion Model EDM
- Explored the application of stochastic depth and attention head dropping techniques as replacements for dropout in deep neural networks to provide implicit regularization
- Evaluated the stochasticity of these methods to gauge their respective strengths in implicit regularization and assessed their impact on training speed

BUPT Pattern Recognition and Intelligent System Laboratory 01/2022 – 04/2022

PyTorch | scikit-learn | MATLAB

- Employed various image processing methods such as Harris Corner Detector and changing color model to image pre-processing so that the accuracy and coherence of image recognition tasks in FGIA are perfected

PROFESSIONAL EXPERIENCE

Machine Learning Researcher (Intern), Honor of Kings, Tencent 01/2024 – 06/2024

Pyspark | HQL | TensorFlow

- Constructed a champion recommendation attention model, increasing ctcvr by 13%
- Constructed training samples for model development utilizing PySpark and SQL
- Employed PySpark and SQL for data extraction and analysis, enabling targeted improvements to the model and sample dataset, thereby optimizing online performance
- Received S-level (Top) rating for outstanding performance during the internship

Machine Learning Quant Researcher (Intern), Southwest Securities 08/2021 – 01/2022

PyTorch | Scikit-learn | Wireshark | Wavelet Analysis | MATLAB

- Construct a secondary stock market price-prediction neural network model and a decision-making model

SKILLS

Language: PyTorch, PySpark, SQL, TensorFlow, Java, MATLAB, C++, C, JavaScript