Shenghe Zheng

+86 13395909577 | shenghez.zheng@gmail.com

Education

Harbin Institute of Technology Aug. 2023 - Mar. 2026 (expected)
Master in Computer Science *Research Center for Massive Data Computing*

Harbin Institute of Technology, Honors School(Top 5% in HIT) Aug. 2019 - Jun. 2023
B.E. in Computer Science *CGPA: 91.183/100 Rank: 28/146*

HONORS & AWARDS

Outstanding Graduate of Harbin Institute of Technology	2023
Second Prize at the 14th Undergraduate Academic Forum, Harbin Institute of Technology	2021
Honorable Award in American Mathematics Modelling Contest for College Students	Apr. 2021
Outstanding Student at Harbin Institute of Technology	2019-2022
Renmin Scholarship	2019-2022

RESEARCH EXPERIENCES

Neural Architecture Search Based on Self-Supervised Learning Sept. 2022 - Jan. 2023
- The project employs a self-supervised approach to train a neural network performance predictor using unlabeled data, aiming to accelerate and optimize the performance evaluation strategy in neural architecture search(NAS).
- We propose a novel curriculum method to guide the training, which makes the predictor perform better in NAS.
- Paper published at AAAI 2024

Automatic Algorithm Selection for Time Series Data Jul. 2021 -Mar. 2022
- We propose a novel method for automatic Time Series Classification(TSC) algorithm selection named TSC-AutoML. It is the first attempt in TSC to extract historical experiences and select algorithms for new tasks.
- TSC-AutoML employs a reinforced policy to measure the similarity between time series datasets, automatically recommending algorithms for time series datasets based on similarity.
- Paper published at ICDE 2023

Automatic Machine Learning on Classification Tasks Oct. 2020 - Mar. 2021
- Our system(Assassin) automates the process of Algorithm Selection and Hyperparameter Optimization(HPO). Users only need to upload the data set of the classification task.
- Experimental results show that Assassin can select a high-performance algorithm for a user task.
- Paper published at VLDB 2021

Recommendation System Based on Automated Machine Learning Apr. 2021 - Sept. 2021
- The project designs an automated machine learning approach, leveraging model training information to accelerate the performance evaluation of recommendation system models, thereby expediting the automated design of machine learning models.

Experience

Harbin Institute of Technology Baisi Tang Group *Lecturer* Sept. 2019 - Jun. 2020
- Responsible for delivering course lectures. During my tenure as a lecturer, the organization was recognized as the Top-10 Assistance Volunteer Organization at Harbin Institute of Technology for the 2019-2020 academic year.

Massive Data Computing, Harbin Institute of Technology *Research Intern* Oct. 2020 - Jun. 2023
- Participated in the entire process of producing four research papers and contributed to the completion of various research tasks at the Research Center.

HIT Intelligent Data Club *Director of the Academic Department* Oct. 2022 - Now
- Organized and prepared various technical sharing sessions and academic discussions, providing students with opportunities for research and a platform for learning and exchange.

TECHNICAL SKILLS

Program Languages: Python, Java, C/C++, SQL
Deep Learning Frameworks: PyTorch
Language: English(CET-6)