

LEXIAO ZOU

✉ 200110803@stu.hit.edu.cn | 🌐 Lokshaw-Chau | 🌐 lokshaw-chau.github.io | 📞 +86 18081205169

Education

Harbin Institute of Technology, Shenzhen Campus

Bachelor of Science in Computer Science

Sep. 2020 – Present

Guangdong, CHN

- CGPA: 90.80/100
- Selected Awards:
 - * Academic Scholarship of HITSZ(Top 15%)
 - * Honorable Mentioned in Mathematical Contest in Modeling(2022)
 - * Third Prize in CCAC AI Debate Contest(2022)
- Selected Coursework
 - * Introduction to Deep Learning (95)
 - * Computer Architecture (100)
 - * Computer Organization (98)
 - * Compile Principle (98)
 - * Operating System (92)
 - * Introduction to Algorithms (91)

Research Experience

AI Debate

June 2022 – Oct. 2022

Undergraduate Research Assistant

Supervisor: Prof. Ruifeng Xu

- Explore the topic of argumentation relation detection and aim at tackling unbalanced label distribution. Apply adversarial attack, unbalanced loss, model ensemble to train a graph neural network which leverages knowledge from dependency information and pre-trained language model.
- Third Prize in track 2, CCAC AI debate contest, 2022

Domain Adaptation for Time Series Analysis

Oct. 2022 – Present

Undergraduate Research Assistant

Supervisor: Prof. Liqiang Nie

- Survey on current domain adaptation methods applied on time series analysis.
- Design a comprehensive evaluation system for domain adaption applied on time series classification.
- Analyze adversarial-based adaptation method applied to CNN-based time series classification model and attempt to modify it to get better transferability.(ongoing)

Projects

Five-stage pipe-lined CPU based on RISC-V | Verilog, vivado

June 2022

- Design a classic five-stage pipe-lined CPU with feed-forward, branch forecasting mechanism and implement a subset of RISC-V instruction with verilog.
- Support basic calculation, memory access, jump&branch functions and burn to an FPGA to run a simple calculator program that already compiled to machine code.

CS224N courses assignments | Python, Pytorch

Feb. 2023

- Explore count-based and prediction-based word embedding and implement Word2Vec algorithm.
- Implement and train an transition-based neural dependency parser with Pytorch and analyze a few erroneous dependency parses.
- Build a Cherokee-English neural machine translation with LSTM and seq2seq models. Analyzing NMT systems and BLEU evaluation methods.

Skills

Programming: Python, Java, C, verilog, SQL

Tools and Frameworks: PyTorch, numpy, L^AT_EX, bash, git, cmake

Language: TOEFL 106