YI HUANG

+86 15066132919
hyiii0204@gmail.com

EDUCATION

Computer Science and Technology, Shan Dong University 2020 - present
GPA: 93.443/100, **1**/197 (top 0.5%)
Main Courses:
- Linear Algebra (Score: 99) - Discrete Mathematics (Score: 100) - Advanced Mathematics II (Score: 99)
- Probability Theory and Statistics (Score: 100) - Database System Concepts (Score: 96)
- Principles of Computer Composition (Score: 98) - Operating System (Score: 94)
- Digital Logic (Score: 97) - Computer Graphics (Score: 95) - Compilation Principle (Score: 97)
- Software Engineering (Score: 96) - Computer Systems and Architecture (Score: 95)

AWARDS & HONORS

National Scholarship (top 1%) 10/2022
Zhiyang Scholarship (top 1%) 12/2022
First Class Academic Scholarship (top 5%) 09/2020, 09/2021, 09/2022
Linglong Scholarship (top 5%) 12/2021
Honorable Prize in Mathematical Contest in Modeling (**MCM**) 05/2022
Provincial Second Prize in China Undergraduate Mathematical Contest in Modeling (**CUMCM**) 10/2022

PROFESSIONAL SKILLS

Programming: **C, C++, Python**, Java, Matlab, SQL, Latex, Markdown
Frameworks: **PyTorch**, Anaconda, Linux, git
Language: CET-4 **614**, CET-6 **575**

RESEARCH EXPERIENCE

Counterfactual Reasoning for Out-of-distribution Multimodal Sentiment Analysis. 01/2022 - 05/2022
Supervised by Prof. Liqiang Nie, Intelligent Media Research Centre (**iLearn**), Shan Dong University

- We attempt to apply counterfactual reasoning to mitigate the spurious correlations between texts and labels.
- We also construct the OOD test set by simulated annealing method to evaluate the generalization ability of our proposed framework.

Knowledge-aware Network for Fake News Detection 07/2022 - 11/2022
Co-supervised by **iLearn** of Shan Dong University and NExT Research Center (**NExT++**) of National University of Singapore

- We get a better representation of news by comparing the news entity with the corresponding entity in the knowledge base.
- Furthermore, we try to generate counterfactual samples for fake news, thus providing explainability.

Detection of AI-generated Multimodal Fake News 02/2023 - 04/2023
Co-supervised by **iLearn** and **NExT++**

- We utilize ChatGPT and Stable Diffusion to construct our own AI-generated multimodal fake news dataset.
- In the detection model, the theory of causal reasoning and representation disentangling is exploited.

PROJECT EXPERIENCE

Cache on a MIPS Machine in C (Independent work) 12/2021
Tiny Model Machine Based on Microprogram using QuartusII (Team work) 10/2022
UNIX-like Shell and File System in C++ (Independent work) 12/2022
PL0 Compiler in C++ (Independent work) 06/2023