何震宇 Zhenyu He

Tele: 19150262160 | zhenyu.h@outlook.com WeChat: hzysweixin Blog: https://zhenyuhe00.github.io

Education

University of Electronic Science and Technology of China

IELTS: 7

Sep 2019 - Jun 2023

School of Software Engineering

Chengdu, China

Major: Software Engineering (Elite Program)

GPA: 3.99/4, 90+/100

Courses: CS224n, CS224w, CS231n, CS229, Information theory and Entropy, Calculus I/II(93/96), Linear Algebra(93), Program Design and Algorithm Foundation I/II(100/100), Probability and Mathematical Statistics(93), Physics(94), Discrete Mathematics(92)

Peking University Sep 2023 - Jul 2027

School of Artificial Intelligence

Publication

Rumor Detection on Social Media with Event Augmentations, SIGIR 2021

Zhenyu He*, Ce Li*, Fan Zhou, Yi Yang

Preprint

Two-Stage Neural Contextual Bandits for Personalised News Recommendation

Mengyan Zhang, Thanh Nguyen-Tang, Fangzhao Wu, Zhenyu He, Xing Xie, Cheng Soon Ong

Uni-Fold MuSSe: De Novo Protein Complex Prediction with Protein Language Models

Jinhua Zhu*, Zhenyu He*, Ziyao Li, Guolin Ke, Linfeng Zhang

Research Experience

Research Intern (remote), Peking University

Jan 2023 - Present

Advisor: Prof. Di He; Mentor: Shengjie Luo

Beijing, China

1. Deep learning for predicting atomic energies / forces / positions.

Research Intern, DP Technology

Jun 2022 - Jan 2023

Mentor: Guolin Ke

Beijing, China

• Applied NLP techniques (pre-training) to protein modeling.

Research Intern, Machine Learning Group, MSRA

Mar 2022 - Jun 2022

Mentor: Lijun Wu

Beijing, China

- · Worked on Drug Al
- Introduce prompt tuning to molecule transformer.
- Introduce PUlearning techniques such as Mixup, label flip to Drug-Drug interactions.

KEG, Tsinghua University

Jul 2021 - Jan 2022

Advisor: Jie Tang; Mentor: Xiao Liu

Beijing, China

- Worked closely with senior Ruixiao Yang on a project called "Language Model as Wikipedia". We aimed to make
 Language Model as knowledgeable as Wikipedia and tried many techniques. We tested performance on downstream
 Question-Context retrieval task and found that the top 2 retrieval accuracy of our radical method can be comparable to
 the top 1 retrieval accuracy of DPR. More details about this project can be found in our meeting document.
- Worked closely with postgraduate Xiao Liu on a project called "Never Ending Language World Knowledge Learning System". We aim to build a life-long learning system acquiring world knowledge. This project is a relatively huge project and more people are participating in it. As for my part, which is the extractor part, I reimplement the Prompt-Learning techniques on Language Models and train hundreds of continuous prompts for different relation extraction datasets.

When conducting inference, I use some techniques to aggregate hundreds of prompts model as a joint model, so that the model can extract all relations of a given context by only one "forward step". Project website

https://wudao.aminer.cn/newkg/

CoAI, Tsinghua University (remote)

Advisor: Prof.Minlie Huang

Apr 2021 - May 2021

Beijing, China

- Worked closely with postgraduate Runze Liang and Senior Wenchang Ma on conversational Al.
- · Read some papers about conversational AI.
- Starting from scratch, I devoted time to learning HTML, CSS, Javascript, and some basic knowledge of Vue. After 1~2 weeks, I successfully made a simple conversation page, using node.js as backend.

ICDM, University of Electronic Science and Technology of China

Nov 2020 - Jun 2021

Advisor: Prof.Fan Zhou Chengdu, China

- Did research on rumor detection on social media and read many papers about this field.
- · Read many papers about graph neural networks and contrastive learning.
- Proposed data augmentation strategies and integrated contrastive learning to achieve label-efficient learning in rumor detection. A first-author SIGIR short paper was accepted.

KE Lab, University of Electronic Science and Technology of China

Jul 2020 - Oct 2020

Advisor: Prof.Qiao Liu Chengdu, China

- Did some research on session-based recommendation systems.
- Reproduced some models such as GRU, STAMP, and SR-GNN.

Work Experience

Applied Scientist Intern, Microsoft STCA

Jan 2022 - Feb 2022

- Worked as a machine learning engineer to improve the performance of recommendations, advertising, and searching.
- Worked on a research project about the exploit and exploration problem with Mengyan Zhang.

Awards and Scholarship

SIGIR Student Travel Grant 2021
 The First Prize Scholarship 2020
 Midea Enterprise Scholarship 2020

Skills

Programming Language
 Python, C, basic Java/HTML/CSS

• Deep Learning Framework Pytorch

Miscellaneous Latex, SQL, Markdown