Zihua Zhao

UNDERGRADUATE IN COMPUTER SCIENCE

📞 (86) 189-304-55627 | ✉ sjtuszzh@sjtu.edu.cn | ⓞ https://github.com/ZihuaZhao

Education

Shanghai Jiao Tong University   *Shanghai, China*

HONORS BACHELOR OF SCIENCE(B.SC. HONS) IN COMPTER SICENCE   *September 2017-Present*

- Member of ACM Class, which is an elite CS program for top 5% talented students.

Research Experiences

Research Interests

CURRENT RESEARCH INTERESTS AND RESEARCH FIELDS.   *July 2019 - PRESENT*

- Natural Language Processing, Machine Learning

Department of Computer Science and Engineering   *Shanghai Jiao Tong University*

UNDERGRADUATE RESEARCHER   *July 2019 - PRESENT*

- Advised by Prof.Hai Zhao.
- Research interests: Natural Language Processing, Machine Learning.

Capsule Network to replace Attention   *Department of Computer Science and Engineering*

USE CAPSULE NETWORK TO REPLACE ATTENTION.   *Present*

- More MRC models adopt multiple attention layers to capture correlation, but a negative consequence is the explosion of parameters. So Capsule Network is used to replace attention layer.
- Work still working on in the lab.

Multi-Turn Conversation Project   *Department of Computer Science and Engineering*

MULTI-TURN CONVERSATION PROJECT   *Present*

- Including launching a new dataset for multi-turn conversation, which is processed on a previous dataset, and a model trained on it.
- Work still working on in the lab.

Honors

Zhiyuan Honorary Scholarship   *Shanghai Jiao Tong University*

                                                                            2017 & 2018 & 2019

Shanghai Jiao Tong University Elite Student Scholarship C Class   *Shanghai Jiao Tong University*

                                                                            2017 & 2018 & 2019

The Second Aword for Robomaster   *Shanghai Jiao Tong University*

ELECTRONIC CONTROLLER, MANIPULATOR   *Fall 2018*

- Robomaster is a competition to design and control robots to fight against other teams.
- Robot of our team finally ranked the fifth and got the secind reward for the competition.

Selected Projects

Mx-Compiler   *https://github.com/ZihuaZhao/Compiler*

A COMPILER FOR MX* LANGUAGE   *Spring 2019*

- It is a compiler implemented in Java from scratch, and the source language is Mx*, which is a C-and-Java-like language.
- The compiler is implemented with Sementic Analysis, Dead Code Elimination, Register Allocation methods, etc.

RISC-V

A RISC-V CPU on FPGA *Fall 2018*

- Designed and implemented a FPGA-supported RISC-V CPU with 5-stage pipeline implemented in Verilog HDL.

Railway Management System

Railway Ticket Management System *May 2018*

- Backend Development, including a B-plus tree.
- Group project for Data Structure 2018 (CS147), ACM Class, SJTU.

Text Classification

Machine Learning by Prof. Weinan Zhang

Ensembled models to predict whether the comment is positive or negative. *October 2019-Present*

- Seperating the sentences word by word performs the best. XGBoost, NN, CNN ensembled to predict the result.
- The model has exceeded the strong base line.
- Practising project for Maching Learning 2019 taught by Prof. Weinan Zhang, ACM Class, SJTU.

Skills ─────────────────────────────────

Skills   Python, Java, C/C++