Yuchen Shen

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Address: No. 4, Sec. 2, North Jianshe Rd., Chengdu, China

Education Background

University of Electronic Science and Technology of China, Chengdu, China   Sept. 2019- Jul. 2023(Expected)

- Bachelor of Engineering in Software Engineering (Elite Program), GPA: 3.99/4.0
- Honors and Awards: First Class Scholarship (Top 10% in 2019, 2020); Honorable Mention of 2021 Interdisciplinary Contest in Modeling
- Core Courses: Compiling Technique (93/100), Operating System (95/100), Computer Networks (95/100), Embedded System Design (94/100), Probability and Mathematical Statistics (91/100)

2021 NJUNLP Summer Camp, **Nanjing University**, Nanjing, China   Jul. 2021-Aug. 2021

- Won the best performance award and best project award and was **the only one** to receive a research position afterward due to my performance
- Researched on Sentiment Analysis and reproduced several classical papers on aspect-based sentiment analysis

NUS SOC Summer Workshop 2021, NUS, Singapore, Singapore   May 2021-Jul. 2021

- Developed a facial access embedded system with deep learning as the team leader
- Core Courses: Embedded System and Deep Learning (Final Grade: B)

Publication

- Fei Zhao*, **Yuchen Shen*** *et al.*, title: Anonymous Submission to IJCAI 2022. Under-review 2022.
- Mengjuan Liu, Xiaoming Bao, Jiang Liu, Pei Zhao, **Yuchen Shen**, "Generating emotional response by conditional variational auto-encoder in open-domain dialogue system", Neurocomputing, 460:106–116, 2021.

Research Experience

Opinion Summarization under an unsupervised setting, Beijing, China   Feb. 2022-Present

Advisor: Xiaojun Wan, Professor, Wangxuan Institute of Computer Technology, PKU

- Researched on Opinion Summarization under an unsupervised setting focusing on fine-grained features
- Identified drawbacks of current opinion summarizers (a new model is currently under development)

Multi-label Aspect Category Detection under a Few-shot Learning Scenario   Aug. 2021-Jan. 2022

Advisor: Xinyu Dai, Professor, Department of Computer Science and Technology, NJU

- Identified the bottlenecks of the current few-shot learning frameworks for multi-label aspect category detection
- Addressed the above challenges with a novel attention mechanism and proposed a semantic-aware framework for existing models
- **Paper submitted to IJCAI 2022 as the joint first author**

Dialogue Generation in Open Domain with Conditional Variational Auto-Encoders   May 2020-Jul. 2021

Advisor: Mengjuan Liu, Associate Professor, School of Information and Software Engineering, UESTC

- Proposed to generate affective instead of generic responses for open-domain dialogue systems with CVAE
- Improved the sentiment and quality of responses with an affective lexicon and a re-ranking strategy
- **Paper published on Neurocomputing**

Skills

Language: TOEFL 112/120 (Reading 30, Listening 29, Speaking 25, Writing 28), Chinese (Native)

Programming Language: Python (proficient), C, Java

Framework and Tools: TensorFlow, Keras, and PyTorch; Specialized in scientific visualization