YUJIE ZHU

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EDUCATION

New York University   New York, U.S.
Master of Science in Computer Engineering   Sept. 2022 – May 2024
GPA:3.9
Coursework: Decision Models and Analytics; Real Time Embedded System; Computing Systems Architecture; Probability and Stochastic.
Scholarship: $7000.

Southern University of Science and Technology   Shenzhen, China
Bachelor of Science in Applied Mathematics   Aug. 2017 – July 2022
GPA: 3.57
Coursework: Data Structure and Algorithm Analysis; Mathematical Modeling; Discrete Mathematics; Real Analysis; Time-Series Analysis.
Honors: Outstanding Graduates of Mathematics Department, 2022;
Merit Student Scholarship for Exceptional Performance, 2019–2020;
SUSTech Scholarship for Freshmen, 2017

PUBLICATIONS

Yujie Zhu. (2021). Self-supervised Learning for Small Shot COVID- 19 Classification.*2021 3rd International Conference on Information Technology and Computer Communications* (pp. 36–40). ACM ISBN 978- 1-4503-8988-4/21/06.

Summary: A classification model based on self-supervised learning and transfer learning was proposed, which uses rotation and division as labels and then transfers the parameters to the classifier. It solves the overfitting problem caused by insufficient data set and improves the accuracy by nearly 30%

COURSE PROJECTS

Developing A Searching and Communication Software for Recipe   May, 2023
Java Programming

- Used database to store recipes and users' data; recommended recipes based on users' favorite list.
- Use Thread Class and Server/Client to ensure real-time chat for multiple users.
- Developed user interface with NetBeans.

Detection and Classification of Traffic Signs and Lanes   Nov. 2021 – Dec. 2021
Machine Learning

- Compared the performance of detection and classification models based on YOLO; Resnet V1 101 and Fast R-CNN when faced with blurry and noisy training sets.
- Applied the models to SUSTech's night lane photos for testing.

Recap SkrGAN Model of Medical Imaging   Nov. 2019
Introduction to AI, **Team Leader**

- Organized group members to read literature and write literature reviews about SkrGAN; responsible for making schedules and overseeing the project'sprogress.
- Analyzed the model's application in clinical diagnosis and old picture restoration, as well as its potential future developments.

VOLUNTEERING

CIEE Council on International Educational Exchange   Yamaguchi, Japan
International volunteer teacher   July 2019

Taught 50 local junior high students Chinese culture in Japan.

Hold the English workshop for elementary school students to enhance their English proficiency through multiple interactions.

TECHNICAL SKILLS

Java, Python, C++, TensorFlow, MATLAB, R, LaTeX, Wireshark.