Sizhe Wei

✉ sizhewei@sjtu.edu.cn · ⚯ Homepage · ⌕ SizheWei

No.800, Dongchuan Road, Minhang District, Shanghai 200240, China

🎓 Education

Shanghai Jiao Tong University (SJTU), Shanghai, China   Sep 2017 – Jun 2021

Bachelor of Engineering in Dept. Electronic Engineering.
School of Electronic Information and Electrical Engineering.
Zhiyuan Honors Program of Engineering (An elite program for Top 5% students).
GPA: 85.203 / 100

★ Research Interests

My research interests lie in Computer Vision, Machine Learning and Explainable Artificial Intelligence (XAI).

🏛 Related Experiences

Xtra Computing Group, National University of Singapore   Jun 2019 – Sep 2019

Research Intern   Under the supervision of Prof. Bingsheng He

- In order to explain some unexplainable models in artificial intelligence, we used simple machine learning models such as weighted k-means to approximate the unexplainable models.
- We finished one demo and our method will give explanations in 4 different aspects.
- The result of our work will be submitted to KDD 2020.

Google Machine Learning Winter Camp, Shanghai   Jan 2020

Member   Selected as one of 100 participants nationwide for Google ML Winter Camp.

- The camp is a programming competition run by Google Information Technology (China) Company Limited.
- We designed a demo named AI One Image, which contributes to matting, auto-beauty and style transfer. The project was completed using PyTorch based on U-Net, VGG, and generative CNN.
- Our project won the prize for People's Choice. And we have open sourced our code here, which can be used on local devices.

💼 Coursework Projects

Medical 3D Voxel Classification   Oct 2019 – Dec 2019
- Using PyTorch to implement a voxel calssifer based on Densenet.
- The dataset contains 500 patients' 3D CT scan and manual masks.
- The AUC on test dataset is above 0.70.

📘 Related Courses

Mathematics Foundation: Mathematical Analysis(H), Physics(H), Linear Algebra(A), Discrete Mathematics(A), Probability and Statistics(A), Linear and Convex Optimization(A)
Professional Courses: Thinking and Approach of Programming(A), Introduction to Electronics(A), Data Structures and Algorithms(A+), Electronics System Design Based on Android System(A), Analog Electronic Technology(A-), Signals and Systems(A), Machine Learning(A)

🏆 Honors and Awards

Meritorious Winner, 2018 Interdisciplinary Contest In Modeling (Problem D)

Consortium for Mathematics and Its Applications.   2018

Zhiyuan Honors Scholarship of Shanghai Jiao Tong University

Top 5%, Zhiyuan College, Shanghai Jiao Tong University.   2017,   2018,   2019

Academic Excellence Scholarship (Third-Class) of Shanghai Jiao Tong University

Top 20%, Shanghai Jiao Tong University   2018,   2019

People's Choice of Google Machine Learning Winter Camp

China Talent & Outreach Program Team, Google Information Technology (China) Company Limited.   2020

✏ Teaching

CS 158: Data Structures (Honours)

Teaching Assistant   Mar - Jul, 2020 (Expected)

⚙ Skills

- Programming: Python, C/C++, MATLAB, Verilog HDL
- Tools & Frameworks: LaTeX, Git, PyTorch
- Languages: English, Mandarin (Native)

👥 Activities and Hobbies

- SJTU Chu Cai Program member (Top 45 students of Class 2021)
- SJTU Baidu® club member
- Zhiyuan college basketball team member

Last Update: January 29, 2020