



Personal Information

Age: 20

Address: Railway Campus, Central South University, Changsha, Hunan

Educational background

Central South University 2019.09-2023.07

Undergraduate Major: Software Engineering

GPA: 88.9/100 Ranking: 2/194

English Proficiency: CET4 647; CET6 618

Research Experience

- ❖ **2021.09-2022.05** Medical Informatics Team, Paper Writing and Publishing **Team Member**
 - Published a paper with my teacher WU Jia as 1st author and me as the 2nd author.
 - Segment the augmented osteosarcoma image data with a encoder-decoder network combined with shape flow and feature fusion, to assist the clinical diagnosis of osteosarcoma MRI images.
 - We designed a subnetwork after the encoders to fuse the feature maps of different resolutions. The subnetwork contains several blocks, and in each block there are two routes used for propagating high- and low- resolution features, and the features are fused during the process, the features after fusing are the output.
 - The feature maps from the subnetwork are then inputted to the shape flow block as well as the decoders consecutively, the final output of the decoder and the shape flow are combined to gain the predictions.
- ❖ **2020.07-2020.10** Medical Dataset Designing and Prototype Designing **Team Member**
 - Designed a dataset using the official diagnosis standard file, in order to save the information of the patients as well as the connection between treatments and results.
 - Designed a prototype website using prototype design tools(Axure, modao).

Projects

- ❖ **2021.08-2021.09** NUS(National University of Singapore) Summer Project **Project Member**
 - Learned and developed with teammates in the “Artificial Intelligence and Machine Learning” Project and obtained “Distinction” overall grade.
 - The class explained the basic knowledge and history of machine learning, and the project is to predict the population. After looking through papers we found a theory where the model of population growth is Logistic, and predicted the population with neural network, and compared between the results.
- ❖ **2020-2021** C++, Java, python projects **Team Leader**
 - Freshman: Developed a electronic pet game based on C++, using Qt for front-end and back-end developments.
 - Sophomore: Developed a house purchase assistance software which provides price comparison between multiple platforms; Mainly doing the back-end MVC structure design and development.
 - Junior: Developed a farm renting software, in charge of the IoT(Raspberry Pi) development, detecting the temperature and humidity of the room, as well as a camera used for face detection in case of thieves.
- ❖ **2021.09-2021.10** Machine Learning Project **Team Leader**
 - Using the particle swarm optimization on SVM and compared with other machine learning algorithms(logistic regression, decision tree, random forest, naïve bayes) and visualized the results.

Awards

- ❖ **2020** NECCS Special Prize for Band C **Individual**
 - 5th in Hunan province; The rate of special prizes is 1‰ among all the contestants.

Extracurricular Activities

- ❖ **2019.10-2020.09** Assistant in School of Computer Science and Engineering **Student in charge**
 - Assisted the teachers in daily affairs and left the team due to change of campus.