Li Yujian

Zhuzhou City, Hunan Province,412300,China

(+86)17562644028| Sullens_Lee@163.com

Research interest: **Medical Image Processing**

EDUCATION

Master of Engineering (graduate in May 2025 and will be available to start working thereafter) **2022.09-present**

School of Northeast Petroleum University, Heilongjiang Province,China

- ***Research direction*：Medical Image Processing**

Bachelor of Engineering **2017.09-2021.06**

School of Shandong University, Shandong Province,China

COMPETITION EXPERIENCE

China International College Students' Innovation Competition(CICSIC) **2019.05-2019.06**

- **Software development projects based on Android(Leader)**
  - **Responsible for requirement analysis**
  - **Software development of the entire project**

PROJECT EXPERIENCE

Development of an auxiliary diagnostic system based on transesophageal echocardiography(Core Member) **2023.05-present**

- **Participated in the design and development of the TEE data preprocessing and annotation platform, Achieved the construction of the first high-quality multi-task TEE dataset.**
- **Developed a multi-task semi-supervised classification network that enables high-precision automatic recognition of standard echocardiographic views with a small labeled dataset.**
- **Proposed a dual-branch semi-supervised segmentation network, achieving robust left ventricle segmentation with only 25% of the labeled data.**

Deep Learning Face Recognition System (Graduation Design) **2021.02-2021.06**

- **Proposed a multi-task learning face recognition system based on VGGFace.**

Collection and analysis of public opinion on Weibo based on crawlers(Core Member) **2019.05-2019.08**

- **Developed a data scraping and structured storage system for Weibo public opinion, Built a database to support subsequent data analysis.**
- **Implemented the final system component integration and graphical user interface development.**

PUBLICATIONS

In Process

《NaturalMatch：Searching for natural thresholds during the training process》submitted to **Applied Intelligence** (with editor)

《Unbiased Semi-Supervised Medical Image Classification Model Based on Hybrid Contrast》 submitted to the EI-indexed journal

Working Papers

- A semi-supervised learning-based network framework for transesophageal echocardiography diagnostic assistance.
- Improving semi supervised transesophageal ultrasound image recognition by selecting annotated samples

SKILLS

- Proficient in Python for research purposes and experienced in using Java for project development.