

YUHANG JIANG

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EDUCATION

Anhui University

Sep 2019 - Jun 2023

Intelligent Science and Technology School of Internet

GPA: 3.01/5.00 (Junior GPA : 3.92/5.00)

Awards: The Second Prize Scholarship of Model Student of Academic Records(12/2022)

The First Prize Scholarship of Academic science and technology(12/2021)

Courses: Machine Learning, Pattern Recognition, Analysis of Big Data, Numerical Analysis, Natural Language Processing.

RESEARCH EXPERIENCE (ALL IS SOLO)

Music Generation Toolkit (based on Pytorch)

Dec 2022

- A collection of excellent music generation models in recent years.
- The music data format includes compound word and REMI.
- The model is mainly transformer, including transformer XL, Vanilla Transformer, etc.
- It can freely combine models to generate music.

Visualization Platform for COVID-19 Focus Segmentation

Oct 2022

- Offline inference, real-time display of segmentation results, and support NII file export
- Used UNet and BiSeNetV2 to segment COVID-19 lesion
- Used PyQt5 to visualize the nii image format

Scissors Stone Cloth finger guessing based on Jetson Nano

Jun 2022

- All are developed on the Jetson Nano, including data collection, model training and testing
- Support real-time data reading (captured by camera) and automatically give game results

Music Generation Based on LSTM

Nov 2021

- Used music21 to complete the conversion of midi format, and use LSTM to build a music generation model

PUBLICATIONS

1. **Y.Jiang***, W.Tong, "Improved lightweight identification of agricultural diseases based on MobileNetV3", CAIBDA 2022(oral).
2. Software Copyright of Intelligent contract software for agricultural insurance compensation. 2022SR1568111. Nov. 2022

Note: * indicates the corresponding author

COMPETITIONS

Mathematical Contest In Modeling(MCM) , Finalist winner

Apr 2021

Leader

- Designed a set of algorithms to assess the degree of hunger around the world and optimize the food supply chain
- Responsible for modeling, programming and part of paper writing
- The youngest winner in the history of Anhui University and the first winner of School of Internet

The second prize in iCAN Innovation Contest 2021(Anhui)

Oct 2021

Team member

- Developed a set of hardware system capable of intelligently monitoring and warning the abnormal behavior of the elderly
- Responsible for some STM32 development and project plan writing

PROFESSIONAL EXPERIENCE

Chengdu Jiaoda Guangmang Technology Co.,Ltd.

Jul 2022 - Sep 2022

Algorithm Intern

Chengdu, Sichuan, China

- Researched the newest machine learning algorithms and industrial anomaly detection algorithm
- Applied GAN models to reconstruct images to identify anomalies and evaluate the performance
- Used the object detection neural network model to detect abnormal parts in high-speed rail supports
- Assisted colleagues in developing a set of character recognition patents for LCD meters

SKILLS LIST

Programming: Python, C/C++, Matlab,

Toolkits: Pytorch, Tensorflow, PaddlePaddle, Sklearn, etc.