Hancheng Ye

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EDUCATION

Fudan University *Sep 2016 - Jun 2020*

Junior Student Biomedical Engineering The School of Information Science and Technology *Shanghai*

- GPA: 3.76 / 4.0 (7/190)
- Honors/Awards: Huawei Scholarship (2016-2017), Fudan University Outstanding Undergraduate Second-class Scholarship (2017-2018), Outstanding Member of the School of Information Science and Technology (2018-2019), the 3rd prize of the school level in the 5th China College Students' "Internet+" Innovation and Entrepreneurship Competition, Honorable Mention in the 2019 American Mathematical Contest In Modeling
- Relevant Coursework: Information Theory, Digital Signal Processing, Automatic Control Theory, Data Structure and Algorithm, High Frequency and Radio Frequency Electronics, Electronic System Design, etc.

RESEARCH EXPERIENCE

Evaluation of Liver Fibrosis *Nov 2018 - Present*

Member of the team , Laboratory of Jinhua Yu *Fudan University, Shanghai*

- Preprocessed the data set, including labeling, targeting and screening images.
- Utilized DCNN to train the classification accruacy by using Python.
- The project is still on the way.

Solution to the Opioid Crisis *Jan 2019 - Jan 2019*

Member of the team , 2019 Mathematical Contest In Modeling *Shanghai*

- Improved the SIS model to solve the problem of opioid spreading and responsible for the paper writing using Latex, as well as the data visualization using Python.
- Judged by the result of our prediction model, we accurately predicted the origin of the opioid issue as well as the crux elements that had influence on the spreading.
- Our work finally achieved the Honor Mention (the second prize) in the Mathematical Contest In Modeling.

Implementation of JPEG2000 Technology *Nov 2018 - Jan 2019*

Responsible for the main coding system , Course of Information Theory *Fudan University, Shanghai*

- Collected existing resources to establish the EBCOT coding system of JPEG2000, which was the crux of the matter.
- Modified the Spanish version of C++ code into MATLAB version to integrate the EBCOT part into the coding system.
- Utilized the Huffman coding method to compress the encoded data stream.
- Successfully achieved the compression and reconstruction of JPEG2000 technology and the image compression rate reached 0.17.

Deep Learning in Voiceprint Recognition *Oct 2018 - Dec 2018*

Member of the team , Course of Digital Signal Processing *Fudan University, Shanghai*

- Collected the corpus online for the data set of deep learning and recorded individual sound as the object to be identified.
- Utilized the model of the filter to descript the machinism of LSTM neural network.
- Our work performed the best (0.94) in terms of the classification accuracy for three targets.

INTERNSHIP EXPERIENCE

Anomaly Detection of KPI Data *Jul 2019 - Aug 2019*

Intern student , Department of Electrical & Computer Engineering *University of Florida, United States*

- Responsible for the project of anomaly detection in the lab of Dr. Dapeng Wu. And elected as contact between our group and the professor.
- Utilized RGAN(LSTM) to detect the abnormal points in the KPI sequences, and collaborated with my partner on the report writing and the implementation of the experiment.
- Gained experience on the scientific research of PhD, and achieved 0.63 on the accuracy of anomaly detection simultaneously.

MISCELLANEOUS

- **Skills:** MATLAB (Proficient), Python (Basic), Visual Stdio, SPSS, Latex (Proficient), Word (Proficient), PowerPoint (Proficient)
- **Certifications:** Machine Learning, Deep Learning
- **Languages:** English (Fluent), Chinese (Native)
- **Activities:** School Tai Chi Association (member), College Publicity Center Copywriter
- **Interests:** Table tennis, Travel, Jogging