Chuhao ZHOU

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EDUCATION

Harbin Institute of Technology (Shenzhen) Aug 2017 - Jul 2021

- **Bachelor Computer Science**
- **GPA**: 93.45/100.00 (Top 10%)
- **Honors/Awards**: HIT 2nd Academic Scholarship (2017-2018, top 10% in the department), HIT 2nd Academic Scholarship (2018-2019, top 10% in the department)
- **Relevant Coursework**: Linear Algebra (98/100), Data Structure (96/100), Algorithm (97/100).

RESEARCH EXPERIENCE

Classification of Skin Lesions based on GCN Jul 2019 - Present
Research Assistant Shenzhen
Advisor: Xiaofeng Zhang, Associate Professor, Department of Computer Science, HIT Shenzhen.

- Proposed a novel GCN based model to capture the row vectors correlations and column vectors correlations in different images.
- Applied the proposed method to skin lesions images classification tasks.
- Conducted multiple experiments and proved the superiority of the method proposed such as AlexNet, VGG16 and ResNet18.
- Paper of the work prepared to submit to MICCAI 2020.

Classification of Antinuclear Antibody (ANA) Images based on CNN Models Jun 2019 - Aug 2019
Research Assistant Shenzhen
Advisor: Guokun Zeng, Associate Professor, Department of Computer Science, HIT Shenzhen.

- Built a model based on convolutional neural network to complete ANA image classification task.
- Applied the model on VGHTC database.
- Solved the category imbalance problem in the dataset by applying augmentation techniques (rotations, reversions, translations) plus transfer learning and achieved accuracy of 80%.
- A demo can be found here.

COURSE WORK

A Government Big Data Real-Time Analysis System Nov 2019 – Present
Course: Software Engineering Shenzhen
Advisor: Qing Liao, Associate Professor, Department of Computer Science, HIT Shenzhen.

- Utilized MYSQL as the back-end database.
- Utilized the framework of flask, vue and element to build the front end, and realized the communication between the front end and back end based on the websocket protocol.
- Applied multiple state-of-the-art algorithms such as XGboost, Apriori to complete data analysis tasks.
- A demo can be found in here.

SKILLS & OTHERS

Computer Skills: Proficient programming in C, C++ and Python; Proficient in various machine learning framework and algorithm.
Skills: Microsoft Office, Data Analysis with WEKA and SPSS.
Languages: English (Fluent), Chinese (Native)