Jianwen **Chen**

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Summary

A junior data science student in CUHK(SZ), now visiting UCB. Gain 8A and 8A- in engineering related courses in last three terms, involving calculus, statistic, linear algebra, discrete mathematical☐ data science, machine learing and etc. Have a certain understanding of mahcine learning, deep learning and reinforcement learning. 8+ years algorithm competition experience. Have an understanding of NLP, AI and computer vision. Have a linux using experience. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Project Experience

UP-TO-DATE LEADERBOARD WEBSITE   *2022.8.1-2022.8.25*

- Use html, css, javascript to make a front page
- Purpose of the website to offer a platform for medical image analysis worker to compete and progress
- Website offer user to register and login
- User can upload the test result and the website will grade

Following professor benyou wang

MEDICAL IMAGE ANALYSIS   *2022.9.1-2022.12.25*

- Test the baseline of medical image analysis model on different datasets
- Find new dataset to set up a new medical benchmark

Honors & Awards

2020	**Bowen Academic Scholarship** II, Scholarship of CUHK(SZ)	*Shenzhen, China*
2021	**Bowen Academic Scholarship** II, Scholarship of CUHK(SZ)	*Shenzhen, China*
2021	**Silver Medal**, The 46th ICPC Asia Regional Contest Shanghai Site 2021	*Shanghai, China*
2022	**Silver Medal**, The 46th ICPC Asia Regional Contest Kunming Site 2021	*Kunming, China*
2020	**Second place**, 2020 CUHK(SZ) Programming Competition	*Shenzhen, China*
2022	**Successful Participant**, 2022 Mathematical Contest In Modeling hold by COMAP	*Shenzhen, China*
2022	**Dean List**, The Chinese University of Hong Kong(ShenZhen), SDS	*Shenzhen, China*

Skills

LAUGUAGE/FRAMWORKS

- Knows Python, C++, java, R, LaTex, Markdown, javascript, html, php, css
- Good command of numpy, sklearn, opencv, pandas, matplotlib, gym
- Good command of VSCode, jupyter

MACHINE LEARNING MODEL

- Have ability to implement KNN, CNN, deep Q learning, policy iteration via python
- Knows how to tune the hyperparameter

ALGORITHM DESIGN

- Proficiency in graph theory, Skilled use shortest path algorithm, spanning tree and tree, have knowledge of network flow algorithm, EK and Dinic
- Knows how to use algorithm dealing with string problem, SA, Trie, PAM
- proficient in dynamic programming

WEBSITE DESIGN

- Knows how to use html, javascript and css to make a general website
- Knows basic concept of database and how to use sql
- have ability to make the connection of front-end and back-end

DEEP LEARNING MODEL

- Knows typical model of CV, NLP, Multimodal, such as Resnet, DenseNet, Transformer, BERT, Vision Transformer, Clip
- Knows how to use pytorch to retrieval typical model

Education

CUHK(SZ)(Chinese University of Hong Kong, Shenzhen)

Shenzhen, China

B.S. in Data Science and Big Data Technology

Sep. 2020 - Now

- Got a Bowen Scholarship.
- Emphesis on programming the algorithm, reinforcement learning, machine learning

Extracurricular Activity

Computer @ Comity

Shenzhen, China

Core Member in academic department

Sep. 2020 - Jun. 2021

- Participating in planing next year's event
- Giving algorithm lecture and help member solving algorithm program