

Ming-Yang Ho



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Summary ·

A passionate data scientist and full stack developer who excels at solving practical problems, especially in 2D/3D CV, audio, and medical signal, by designing ML/DL algorithms and building full-stack web applications to provide service. In addition, I am also a graphic designer and clinical pharmacist familiar with psychiatry.

Skills -

- Programming related

- · Python
- · PyTorch
- · JS React
- · C/C++
- · MySQL
- · Web security
- · Docker
- ·Linux
- ·Git

- Others

- · Adobe Ps/Ai/Id/Pr/Lr
- · Psychiatry
- ·Clinical pharmacy

Language

- · Mandarin (native)
- · English (TOEIC 825) [2014]
- · Japanese (JEPT N2) [2018]

Interests

Machine learning, Deep learning, Full stack development, Web security

Work experience

Teaching Assistance (TA)

Machine Learning Summer Schools (2021), Jul. 2021 - Aug. 2021

NTU EE Machine Learning, Feb. 2021 - Jul. 2021

NTU EE Web Programming, Feb. 2021 - Jun. 2021

NTU CSIE Computer Science & Information Technology, Jun. 2021 - Jul. 2021

NTU CSIE Bioinformatics and Cheminformatics, Sep. 2020 - Jan. 2021

Data Engineer (ML) Intern

Dcard, Jun. 2020 - Dec. 2020

- · Built an automatic image cropping system to attract users' attention.
- · Invented a malicious applicants detection system with SimCLR.
- · Established a system to immediately detect offensive comments.
- · Built a persona recommendation system.

Deep Learning Researcher Intern

Institute of Information Science, Academa Sinica, Jul. 2019 - Aug. 2019

· Leveraged the concept of RGB channels to assist in SNP prediction.

Honors

2021 PyCon Speaker

Implementation of a deep learning-based saliency detection system by Python

2021 SITCON Speaker

General adversarial attack against Deep Learning model in image, text, and audio domain

2020 HITCON (Hacks in Taiwan) Speaker

Potential Security and Privacy Issues in Novel Taiwanese National eID system

Awards

- 2021 Multi-label Classification on CT Medical Imaging Competition, 3rd prize
- 2020 Unsupervised Learning Dimension Reduction Competition, 1st prize

Recent Projects

2021 SUPERB: Speech processing Universal PERformance Benchmark

Entrusted by NTU, CMU, MIT, and Facebook AI to build a leaderboard web server for SUPERB Benchmark.

2021 Template is all you need: 2D to 3D reconstruction with template learned by contrastive learning

Developed a 2D to 3D reconstruction DL model leveraging the template concept.

2021 Adversarial attack embedding analysis

Attempted to explicate which layer in the DL model would be the most vulnerable to the adversarial attack.

2021 Commander Song 2: ASR adversarial attack

Developed an adversarial examples generation software by PGD and FGSM algorithms against DeepSpeech 2 ASR model with web server.

Education

2019~2021 M.S. in Bioinformatics (CSIE CMDM lab) GPA 4.20

National Taiwan University (NTU)

Thesis

Look, Listen, and Diagnose: a deep learning based comprehensive Parkinson's disease evaluation system with 3D point cloud and acoustic features

Related courses

DL for CV (A+) DL for 3DCV (A+) DL for HLP (A+) Web programming (A+)
Multimedia security (A+)
Machine learning security (A+)
Cryptography and network security (A)

2014~2019 Pharm.D in Clinical Pharmacy (6 yrs program) GPA 4.06

National Cheng Kung University (NCKU)