

Sandy Hsu

Data Scientist looking to leverage my diverse overseas working experience into the data world

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EXPERIENCE

Data Scientist / RA, Stem Cell Research Centre – YangMing University

NOVEMBER 2021 - April 2022

- Developed a machine learning model to predict the patient with high blood pressure as an adverse event in real-time during Hemodialysis Therapy with the result of 0.88 as the area under curve.
- Standardized the data cleaning procedure and performed the procedure with Excel on the backtesting data.
- Improved data cleaning strategies as part of ELT data pipeline for the upcoming clinical validation trial.
- Converted the feature engineering class of 25 subroutines into python for 84 designed features within two working weeks.
- Optimized the machine learning prediction model based on scikit-learn framework.
- Designed the code package that included the feature engineering and the machine learning algorithm for model deployment.

Professional Development & Taiwan AI Academy—Technical Professional Program

NOVEMBER 2020 - NOVEMBER 2021

- Proposed and led a CNN based project on clothing retrieval system: when input a clothing image into the system, it retrieves 5 images with similar attributes from the adopted database. Result in 1st place of the class competition & best poster.
- Experienced in data processing and modeling with libraries including pandas, scikit-learn and other statistical/machine learning libraries in Python from Kaggle challenges
- Self-taught on python, SQL, Machine Learning by Andrew Ng from coursera

Entrepreneur, Professional Organizer & Social Media Strategist

January 2016 - NOVEMBER 2021

- Self-taught and built a website for my professional organizing business
- Used A/B Testing to improve the website traffic
- Created a 1200+ members on facebook niche page for my professional organizing business

EDUCATION

Google Data Analytics Certification

August 2022

McMaster University, Canada — MSc Health Research Method

April 2012 Completed all course works

York University, Canada — Bachelor of Arts

April 2005 Specialized Honours in Sociology & Astronomy.

PROJECTS

Clothing Retrieval — using two CNN models for clothing retrieval

<https://github.com/milkywaysandy/Clothing-Retrieval>

SKILLS

Python
SQL / BigQuery
Machine Learning
Deep Learning
Scikit-learn
Tensorflow
Pytorch
Git / GitHub
Tableau
R
MatLab
Web Crawler
HTML

LANGUAGES

English, Mandarin