Sandy Hsu

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

Taipei, Taiwan 112
+886 0975-378-161
organizingwithsandy
@gmail.com

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 perfumed 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 of 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
- Created a 1000+ members on facebook niche page for my professional organizing business

EDUCATION

Google Data Analytics Certification

April 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