HSINYU CHEN

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ABOUT ME

A data scientist and previous experience as an architect. I am trained in Python and SQL for handling data and modeling. Particularly interested in generative art and NLP.

SKILLS

Data Science
Python, Numpy, Pandas, scikit-learn, Matplotlib, Seaborn, Tensorflow, Keras

Machine Learning
Regression, Classification, Time series, Markov chain, NLP, Recommender, ANN, CNN

Database
MySQL, Postgres, MongoDB

Deployment
Docker, AWS(EC2, RDS), GitHub Pages, Heroku, Render, Flask, HTML, CSS, JavaScript, p5.js

Language
Mandarin, English, German

PROJECTS

Horror Manga Style Transfer
Project based on papers "Image Style Transfer Using Convolutional Neural Networks" and "Perceptual Losses for Real-Time Style Transfer and Super-Resolution". Converting photos to horror manga style using CNN transfer, additionally using a pre-trained model VGG19 for evaluating loss. Deployed in Render using Flask and p5.js.

Movie Recommender
Recommending movies randomly or based on cosine similarity and NMF. Deployed in Render, tailwind, and Javascript.

Berlin Temperature Predictor
Comparing the autoregressive model, ARIMA, and Prophet(Facebook) in dealing with time series problems.

Supermarket Simulator
Supermarket customer behavior Simulator based on Markov Chain and rendered with OpenCV.

EDUCATIONS/ CERTIFICATION

2022.09 - 2022.12
Data Science Bootcamp
SPICED Academy, Berlin, Germany
12-week intensive course focused on Python-based machine learning and deep learning programming including NumPy, pandas, Scikit-learn, Matplotlib, Seaborn, SQL, TensorFlow, Docker as well as data analysis and data visualization.

2022.11
AWS Machine Learning Foundations
Udacity

2019.10 -
Medieninformatik Online
BHT, Berlin, Germany
skills: Java, HTML, CSS, JavaScript, React, PHP, Laravel

2002.09 - 2006.06
Bachelor of Architecture degree
NCKU, Tainan, Taiwan

WORK EXPERIENCES

2015.06 - 2022.06
Klaus Roth Architekten
Berlin, Germany
skills: Vectorworks, Adobe Creative Suite, Rhinoceros 3D

2012.12 - 2014.02
Cellulose Design Company, ChongQing, China
skills: AutoCAD, SketchUp, Photoshop

2011.06 - 2012.09
JCW Architects
Taichung, Taiwan
skills: Revit, SketchUp, Photoshop

2006.09 - 2008.10
J.C.Yang Architect & Associates
Taipei, Taiwan
skills: AutoCAD, BlueCAD, Photoshop