Aw Yew Lim

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EDUCATION

Multimedia University (MMU), Malaysia April 2019 – May 2022

- Candidate for Bachelor of Computer Science (Hons) with specialization in Data Science
- CGPA: 3.78/4.00

DeepLearning.ai, Coursera Jun 2020

- Candidate for online course 'Deep Learning Specialization'

Stanford University, Coursera Apr 2020

- Candidate for online course 'Machine Learning'

WORK EXPERIENCES

IJOOZ AI, Singapore August 2022 – Present

Software Engineer

- Assist on modifying Orange Management Web using ASP.NET Razor Pages Framework and MS SQL.
- Perform item recognition accuracy analysis on Smart Kiosk with different recognition system.
- Other IT daily works: Update orange vending machine UI, perform antivirus task, firmware upgrade and hardware setting on new machine.

Innov8tif, Malaysia March 2021 – June 2021

AI Engineer intern

- Prepare image sample for machine learning. Help on annotations for MyKad landmark and glare detection. Develop and assist image processing algorithm. Undergo testing and write documentation.
- Involve in similarity check research, MyKad and Singapore ID classification, Khmer OCR on Cambodia ID project.

SIDE PROJECTS

Final Year Project: Joint Prediction of Technical and Aesthetic Image Quality (PyTorch, OpenCV, Flask)

- Propose a multi-task learning-based aesthetic and technical quality assessment model. The proposed approach proves that jointly trained aesthetic and technical quality model has slight improvement compared to individually trained model. Huge dataset (with 250k images for aesthetic and 10k images for technical quality) is used.

Manufacturing Defects Detector (TensorFlow, Keras, OpenCV, Flask)

- Build a deep learning model using Convolutional Neural Network and train it using dataset from Kaggle. Deploy the trained model to web with Flask.

Facial Expression Recognition (TensorFlow, Keras, OpenCV, Flask)

- Build and train a Convolutional Neural Network from scratch to recognize facial expression. The objective is to classify each face based on the emotion shown in the facial expression into one of the seven categories (Angry, Disgust, Fear, Happy, Sad, Surprise, Neutral). The dataset is from FER 2013 dataset.

Sentiment Analysis (Scikit-Learn, NLTK)

- Analyze movie reviews from dataset using a simple logistic regression estimator from Scikit-Learn. NLTK is also used to perform feature extraction. The dataset is taken from IMDB.

Web Scraping (Selenium)

- Scrap data of Kuala Lumpur attractions (Name, Ranking, Building type, Overview, Address) from tripadvisor.com and store them into csv file.

LANGUAGE & SKILLS

Programming Language: Python, SQL, R, C#, Java, C++, HTML, CSS
Framework: TensorFlow, Keras, NumPy, Pandas, OpenCV, Scikit-Learn, Flask, Selenium, Javax, Pytesseract
Human Language: English, Chinese, Malay, Hokkien

ADDITIONAL EXPERIENCES

Participated in TARUC e-data hackathon

- Design and develop an AI toolkit with image processing and computer vision techniques that can detect manufacturing defects automatically.