

# Aw Yew Lim

Johor Bahru, Malaysia

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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

### 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.

## HONOUR & AWARDS

- Graduated with First Class Honors (CGPA above 3.67)
- Dean's List honors x 7

## LANGUAGE & SKILLS

**Programming Language:** Python, Java, R, C++, SQL, HTML, CSS

**Framework:** TensorFlow, Keras, PyTorch, NumPy, Pandas, OpenCV, Scikit-Learn, Flask, Selenium, Pytesseract

**Human Language:** English, Chinese, Malay, Hokkien

## ADDITIONAL EXPERIENCES

### Member of IT Society

- The official club of Faculty of Computing and Informatics in MMU. Actively join events and workshops organized by the committees of IT Society.

### 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.