Aw Yew Lim

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Education

Multimedia University, Malaysia *April 2019 – May 2022*

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

IBM, Coursera *Sep 2023*

- Candidate for online course '*IBM Data Engineering Professional Certificate*'

DeepLearning.ai, Coursera *Jun 2020*

- Candidate for online course '*Deep Learning Specialization'*

Stanford University, Coursera *Apr 2020*

- Candidate for online course '*Machine Learning'*

Languages & Skills

Programming Skills: Python, SQL, C#, R, HTML, CSS, JavaScript
Frameworks and Tools: TensorFlow, Keras, PyTorch, Scikit-Learn, Spark, Hadoop, Kafka, Hive, NoSQL, NumPy, Pandas, Tableau, Matplotlib, Seaborn, OpenCV, Flask, Selenium, Pytesseract, .NET Razor Web
Human Language: English, Chinese, Malay, Hokkien, Cantonese

Work Experiences

IJOOZ Vending, Singapore *August 2022 – Present*

Software Engineer

- **Integration of DOKU QRIS Payment Service**
  - Successfully integrated DOKU QRIS payment method into the Orange Vending Machine, allowing Indonesian clients to conveniently pay for fresh orange juice. Utilized C# to develop and integrate the DOKU API, enabling functionalities such as access token generation, QR code creation for payments, and payment status inquiries.
  - Independently managed and executed the entire project, demonstrating a high level of initiative and problem-solving skills.
- **Management of Orange Management Web**
  - Oversaw the development and maintenance of the "Orange Management Web" portal, a crucial internal tool for the smooth operation of the company's orange vending business. Implemented modifications and added new features to enhance the website's functionality using C# CSHTML Razor Web.
  - Designed, added, and modified tables and wrote stored procedures in MS SQL to optimize website operations.
- **Python Scripting for Improved Efficiency**
  - Developed Python scripts to enhance operational efficiency and remote control of 400 Smart Kiosk machines located externally. Utilized MQTT to remotely manage machine content, including advertisements and screen content updates.
  - Automated the cropping of Orange juice QR Code coupons, significantly reducing manual workload.
- **Data Retrieval and Analysis**
  - Utilized MySQL to extract and provide data for analysis purposes to various departments within the organization.
- **Additional IT Responsibilities**
  - Provided support for the CRM system, updated the user interface of the Orange vending machines, performed antivirus tasks, conducted firmware upgrades and configured hardware settings for new machines.

Innov8tif, Malaysia *March 2021 – June 2021*

AI Engineer intern

- **Image Sample Preparation for Machine Learning**
  - Assisted in annotating Malaysia MyKad landmarks and glare detection, which significantly improved the accuracy of image recognition systems. Collaborated in the development and refinement of image processing algorithms.
  - Conducted rigorous testing and meticulously documented the results, ensuring comprehensive project records.
- **Research and Classification Projects**
  - Engaged in pioneering research related to similarity checks. Contributed to projects involving the classification of Malaysia MyKad and Singapore ID documents, enhancing document processing efficiency.
  - Worked on the implementation of Khmer OCR for Cambodia ID recognition, demonstrating a commitment to diverse international projects.

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.

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.