Aw Yew Lim

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EDUCATION

Multimedia University, Malaysia ***April 2019 – May 2022***

- Bachelor of Computer Science, Data Science Specialization
- GPA: 3.78 of 4.00

Microsoft Certified: Azure Data Fundamentals ***Oct 2023***

TECHNICAL SKILLS

Programming Skills: Python, SQL, C#, R, HTML, CSS, JavaScript
Frameworks and Tools: TensorFlow, Keras, PyTorch, Scikit-Learn, NumPy, Pandas, Tableau, Matplotlib, Seaborn, OpenCV, Flask, Selenium, Pytesseract, .NET Razor Web

PROFESSIONAL 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.

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.