

Tan Yee Fan

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RESEARCH INTEREST

My research interests lie in the application of AI in healthcare transformation and medical imaging. Also, I am interested in the general application of deep learning and machine learning in Computer Vision.

EDUCATION

Multimedia University

Bachelor of Computer Science (Hons) Artificial Intelligence
CGPA: 3.97

Melaka, Malaysia
November 2019 – November 2021

Multimedia University

Diploma in Information Technology
CGPA: 4.0

Melaka, Malaysia
July 2017 – October 2019

EXPERIENCE

Undergraduate Research Assistant

Multimedia University

- Research on predictive modelling
- Investigated different techniques for time-series forecasting

February – August 2021
Melaka, MY

Volunteer Research Assistant

Multimedia University

- Worked as a team under supervision of a faculty lecturer
- Applied rule-based system for DOOH dynamic pricing

October – November 2020
Melaka, MY

Peer Tutor

Multimedia University

- Being a tutor for the subject of Mathematical Technique

November 2018 – March 2019
Melaka, MY

PROJECTS

Automatic Handwritten Text Recognition for Medical Application | *Deep Learning*

June 2020 – September 2021

- Final Year Project
- Collected the handwritten receipt for model training
- Models trained including: printed/handwritten text identification, OCR and HCR models, and information classification model

Explainable Health Prediction with Transfer Learning | *Deep Learning*

June – November 2020

- Collected the dataset
- Techniques applied in this project included Haar Cascade Classifier, GAN, CNN, Transfer Learning
- Applied various Explainable AI (XAI) techniques as LIME, XAI, IG to get model's explanation in making a decision
- Achieved an accuracy of 0.97 in identifying sick symptoms, where the XAI can provide reasonable respond in highlighting the corresponding regions

AWS Hackathon Build On Malaysia (Finalist Top 50) | *Python, Git, AWS*

June – September 2020

- Working in a team to build a smart cane prototype for visually impaired group
- Use AWS services for tasks such as Object Recognition, Voice Recognition, Emergency Message

Funtastic Event - Web-based Application | *HTML/CSS, JS, PHP, MySQL*

April – November 2019

- Final Year Project of diploma, a full stack web-based application to enable users to hold an event through the platform

MANUSCRIPT

Explainable Health Prediction based on Facial Features using Transfer Learning (Under Review)

2021

TECHNICAL SKILLS

Languages: Python, C/C++, Java, HTML/CSS, JavaScript, PHP, Laravel, MySQL, CLIPS, LISP, Prolog

Developer Tools: Git, VS Code, Google Cloud Platform, Amazon Web Services

Operating System: Mac, Window

Office and Multimedia Tools: Microsoft Office, Adobe Illustrator, Adobe Premiere Pro

Linguistic: English, Mandarin, Bahasa Malaysia

AWARD / CERTIFICATION

Dean List Award: Received for 8 semesters in Multimedia University

Best Diploma Student in Information Technology: Received full scholarship for Bachelor Degree Studies

Huawei Certification: HCIA-AI

Data Science 360: A certification program from LEAD

VOLUNTEER EXPERIENCE / LEADERSHIP

Chinese Cultural Camp | *Secretary*

July – December 2019

- In charge of documentation preparation, checking and approving
- In charge of the application process for the necessities from the campus

Orientation Series, CLS | *Assistant Director, Creative and Design Division*

January – September 2019

- In charge of multimedia designs for publicity in Multimedia University
- Design member card of Chinese Language Society for year 2019

Chinese Language Society | *Director, Activity of Recreational Division*

January – November 2018

- Led a group comprised of approximately 30 people to hold an event in the campus
- Designed the theme of event and bond the relationship of the participants