Winarto Wijaya

Mobile	(+65) 9774 9369 – currently in Singapore
Email	winartoawi@gmail.com
Nationality	Indonesian
Working Availability	January 2022

LINKS

www.linkedin.com/in/winartowijaya

www.github.com/winartoawi

PROFILE

Awaiting result - Master of science in Artificial Intelligence, fresh grad from Bachelor`s degree in Mechatronic engineering.

PROJECT EXPERIENCE IN MASTER OF SCIENCE IN AI – (Awaiting Result)

Aug2021 — Oct 2021

Deep learning Lung Nodule detection and classification , Capstone project

- Faster R-CNN for lung nodule candidate screening and False Positive Reduction using Dual Path Network with Squeeze and Excitation module.
- Utilizes public LUNA 16 Lung Nodule dataset.

Aug2021 — Oct 2021

Deep learning Stock Market Price Prediction

- Feature extraction using Convolutional Neural Network (CNN) architecture.
- Combines with the Long Short-Term Memory RNN model.
- S&P 500 stock market – AAPL, GOOG, MSFT, AMZN.

Mar2021 — May 2021

A Spell checker system using Natural Language Processing (NLP)

- Python based program with PYQT Graphical User Interface (GUI).
- NLTK, Unigram, Bigram, edit distance and stupid backoff algorithms.

Oct 2020 — Jan 2021

Credit Risk/Score prediction using machine learning models

- Predicting Credit Risk using SVM, Random Forest, Ensemble method.
- Regularization with hyperparameter tuning using grid and random search.
- Performed the models on R-Studio.

PROJECT EXPERIENCE IN B.ENG IN MECHATRONIC

Sept2019 — Mar2020

Short-ranged communication device for motorcyclist Capstone project

- Communication platform using VoIP (Linphone), Linphone SIP server.
- Provide IoT service dashboard on geo-location and rider`s status.
- Hand-free interface using speech recognition with miniature wind powered turbine.

Feb2019 — May2019

Medklinn Air Sterilizer company intern under R&D department , Internship

- Working with a cost down prototype project on Air Sterilizer unit.
- Involved in the development and testing of Ozone Water unit.

Jul2018 — Jan2019

Aquaponic Smart farming system with IoT

- Integrated IoT (IBM-Bluemix) LAN network using Node-red server via Raspberry Pi.
- Sensors and actuators connect to the main microcontroller Photon Particle and Arduino.
- Sensors: Light Dependent Resistor, pH sensor, Humidity sensor.
- Actuators: LED strip light, 12v relay switch, mini fan, LCD display, and 5v dc motor.

Mar2018 — Apr2018

Participant, Robocon Malaysia competition (UNITEN)

- In charge of designing robot framework with the integration of pneumatic system.

Oct 2020 — Oct 2021	Master of Science in Artificial Intelligence, Asia Pacific University	Kuala Lumpur
Apr 2016 — Jul 2020	Bachelor's degree in Mechatronic Eng. , Asia Pacific University	
Oct 2014 — Dec 2015	Canadian Pre-U (Ontario grade 12) Taylor`s College	
Jan 2009 — June 2014	Poi Lam High School (SUWA), Cambridge O`level grade 11	Perak, Ipoh

SKILLS	Machine Learning Algorithms	Computer vision/image processing
	Data Modelling	Data Visualization
	SolidWorks modeling	

PROGRAMMING	Python Programming Language	R-Studio
TOOLS	AWS SERVICE (Sagemaker)	SPSS
	Visio	MATLAB
	EagleCAD	Scikit-Learn

AI/DS TECHNIQUE	PyTorch/TensorFlow/Keras	Basic ML tech: LR, ANN, SVM
& LIBRARY	DL Architecture: CNN, RNN, LSTM, CNN-LSTM	Obj Detection: Faster R-CNN
	NLP: NLTK, Unigram, Bigram, edit distance	

LANGUAGE	Bahasa Indonesia	Native
PROFICIENCY	English	Fluent
	Bahasa Malaysia	Fluent
	Mandarin	Verbally