

## Winarto Wijaya

Mobile	(+60) 011-1683-8677 (Malaysia)
Email	winartoawi@gmail.com
Nationality	Indonesian
Working Availability	January 2022 – Full-time/Trainee/Intern

LINKS	<a href="https://www.linkedin.com/in/winartowijaya">www.linkedin.com/in/winartowijaya</a> <a href="https://www.github.com/winartoawi">www.github.com/winartoawi</a>
-------	--

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 <ul style="list-style-type: none"><li>- Faster R-CNN for lung nodule candidate screening and False Positive Reduction using Dual Path Network with Squeeze and Excitation module.</li><li>- Utilizes public LUNA 16 Lung Nodule dataset.</li></ul>
Aug2021 – Oct 2021	Deep learning Stock Market Price Prediction <ul style="list-style-type: none"><li>- Feature extraction using Convolutional Neural Network (CNN) architecture.</li><li>- Combines with the Long Short-Term Memory RNN model.</li><li>- S&amp;P 500 stock market – AAPL, GOOG, MSFT, AMZN.</li></ul>
Mar2021 – May 2021	A Spell checker system using Natural Language Processing (NLP) <ul style="list-style-type: none"><li>- Python based program with PYQT Graphical User Interface (GUI).</li><li>- NLTK, Unigram, Bigram, edit distance and stupid backoff algorithms</li></ul>
Oct2020 – Jan2021	Credit Risk/Score prediction using machine learning models <ul style="list-style-type: none"><li>- Predicting Credit Risk using SVM, Random Forest, Ensemble method.</li><li>- Regularization with hyperparameter tuning using grid and random search.</li><li>- Performed the models on R-Studio.</li></ul>

### PROJECT EXPERIENCE IN B.ENG IN MECHATRONIC

Sept2019 – Mar2020	Short-ranged communication device for motorcyclist Capstone project <ul style="list-style-type: none"><li>- Communication platform using VoIP (Linphone), Linphone SIP server.</li><li>- Provide IoT service dashboard on geo-location and rider's status.</li><li>- Hand-free interface using speech recognition with miniature wind powered turbine.</li></ul>
Feb2019 – May2019	Medklinn Air Sterilizer company intern under R&D department , Internship <ul style="list-style-type: none"><li>- Working with a cost down prototype project on Air Sterilizer unit.</li><li>- Involved in the development and testing of Ozone Water unit.</li></ul>
Jul2018 – Jan2019	Aquaponic Smart farming system with IoT <ul style="list-style-type: none"><li>- Integrated IoT (IBM-Bluemix) LAN network using Node-red server via Raspberry Pi.</li><li>- Sensors and actuators connect to the main microcontroller Photon Particle and Arduino.</li><li>- Sensors: Light Dependent Resistor, pH sensor, Humidity sensor.</li><li>- Actuators: LED strip light, 12v relay switch, mini fan, LCD display, and 5v dc motor.</li></ul>
Mar2018 – Apr2018	Participant, Robocon Malaysia competition (UNITEN) <ul style="list-style-type: none"><li>- In charge of designing robot framework with the integration of pneumatic system.</li></ul>

EDUCATION		
Oct2020 – Oct 2021	Master of Science in Artificial Intelligence, Asia Pacific University	Kuala Lumpur
Apr2016 – Jul2020	Bachelor's degree in Mechatronic Eng. , Asia Pacific University	
Oct2014 – Dec2015	Canadian Pre-U (Ontario grade 12) Taylor`s College	
Jan2009 – June2014	Poi Lam High School (SUWA), Cambridge O`level grade 11	Perak, Ipoh
SKILLS		
	Machine Learning Algorithms	Communication and presentation
	Computer vision/image processing	Data Modelling
	Data Visualization	Data Analysis
	Feature Engineering	Predictive Modelling
	SolidWorks modeling	
PROGRAMMING		
	Python Programming Language	R-Studio
TOOLS	AWS SERVICE (Sagemaker)	SPSS
	Visio	MATLAB
	EagleCAD	Scikit-Learn
AI/DS TECHNIQUE & LIBRARY		
	PyTorch/TensorFlow/Keras	Basic ML tech: LR, ANN, SVM
	DL Architecture: CNN, RNN, LSTM, CNN-LSTM	Obj Detection: Faster R-CNN
	NLP: NLTK, Unigram, Bigram, edit distance	
LANGUAGE PROFICIENCY		
	Bahasa Indonesia	Native
	English	Fluent
	Bahasa Malaysia	Fluent
	Mandarin	Verbally