Winarto Wijaya

Mobile	(+60) 011-1683-8677 (Malaysia)
Email	winartoawi@gmail.com
Nationality	Indonesian
Working Availability	10th October 2021 (rough estimate) – available for Full-time/Trainee/Intern

LINKS
www.linkedin.com/in/winartowijaya
www.github.com/winartoawi

PROFILE

Currently pursuing Master of science in Artificial Intelligence, fresh grad from Bachelor`s degree in Mechatronic engineering.

PROJECT EXPERIENCE IN MASTER OF SCIENCE IN AI

Oct2021 – Present (on going) **Deep learning Lung Nodule detection and classification , Capstone project**

- Faster R-CNN for lung nodule candidate screening and False Positive Reduction using classifier (CNN).
- Utilizes public LUNA 16 Lung Nodule dataset.

Oct2021 – Present (on going) **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 – May2021 **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

Oct2020 – Jan2021 **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** B. Eng. In Mechatronic

- Communication platform using VoIP (Linphone), Linphone SIP server.
- 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.

EDUCATION

Oct2020 – Present	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 TOOLS

Python Programming Language	R-Studio
AWS SERVICES (S3, Sagemaker)	SPSS
Visio	MATLAB
EagleCAD	PyTorch, TensorFlow, Keras
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