



YAP WEI HAU

Telephone: +65 8913 9286 | Email: 1weslyyap1@gmail.com | LinkedIn: [wei-hau-yap](#)

SKILLS & ABILITIES

Familiar with programming (Python, C#, NI LabVIEW)

Data Manipulation & Visualization (Numpy, Pandas, Matplotlib, MySQL)

Machine Learning/Artificial Intelligence (Sci-kit Learn, Neural Network, Generative Adversarial Network)

Exposure to web app deployment on Cloud (Streamlit, Heroku, Render)

NOTABLE PROJECTS

April 2023

- **Movie Recommender With Ranking System • Personal Project**
- Built a Collaborative Filtering based recommendation system
- Integrated ranking algorithm in terms of similarity score to further enhance the system
- Tweaking the parameters in the ranking algorithm to optimize the performance
- Deployed the interactive web app and hosted onto the cloud using Render

Jan 2023

- **Wine Cultivars Class Classifier Model • Personal Project**
- Ran exploratory data analysis (EDA) on the two datasets from Kaggle
- Merged two different datasets and trained Machine Learning model to predict wine cultivars
- Deployed the interactive web app and hosted onto the cloud using Render

Oct 2022

- **Optical Character Recognition using Neural Networks • Personal Project**
- Integrated neural networks architecture and trained a model that can recognize handwritten digit MNIST database
- Reuse the trained model (Transfer Learning) for another new model to handle real time handwritten digit recognition

June 2020

- **Security Analysis and Construction of Confidence Bits on a Secured Iris Recognition System • Final Year Project**
- Enhanced iris recognition system by generating an additional layer of confidence on the CASIA iris dataset
- Performance evaluation between initial model and enhanced model by performing genuine and impostor comparisons through FAR and FRR

CAREER EXPERIENCE

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|---------------------|---|
| Mar 2022-Present | <ul style="list-style-type: none">• RnD Data Analyst • Akribis Systems Pte Ltd• Utilizing Python libraries (Numpy and Pandas) for Data Cleaning and Data Manipulation of all test data sets before storing into MySQL local database• Implemented Data Mining solution to business problems such as product recommendation to end customers• Presented product's insights through Data Visualization using Seaborn/Matplotlib to manager for product improvement• Developed data pipeline between Tulip cloud web app and MySQL, allowing two way interactions• GitHub implementation for CI/CD |
| June2020 - Feb2022 | <ul style="list-style-type: none">• LabVIEW Programmer • Fuji Master Engineering Sdn. Bhd• NI LabVIEW software coding development with real time data logging feature for Functional Testers/Automated testing• Data cleaning for test data sets before store in MySQL local database via TCP/IP• Python OpenCV for in house Vision System development• Vision Builder for Automated Inspection (VBAI) from National Instruments |
| Oct 2018 - Jan 2019 | <ul style="list-style-type: none">• Internship at Injection Molding and Precisioning company• Data collection from machines to analyze the performance of products• Performance evaluation through Process Capability Index (Cpk) methodology• Fatigue test of products through Gage Repeatability and Reproducibility (R&R) |

EDUCATION& CERTIFICATES

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|------------------------------|---|
| June 2016-June 2020 | <p><i>Bachelor of Engineering (Honours) Mechatronics Engineering, Universiti Tunku Abdul Rahman, Malaysia</i></p> <p>CGPA: 3.4665</p> <p>Relevant Coursework: Fuzzy Logic in Artificial Intelligence, Image processing and objects detection</p> |
| Oct 2019 | UTAR Academic President's List |
| Oct 2017, May 2018, Jan 2019 | UTAR Academic Dean's List |

CO-CURRICULAR ACTIVITIES

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|-----------|---|
| June 2017 | <p>ICE SC Leadership and Team Building Camp</p> <ul style="list-style-type: none">• Improve my communication skills with new friends as well as boosting my self-esteem• Learn to work with peoples from different universities, thus building teamwork |
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ADDITIONAL INFORMATION

- Fluent in English, Mandarin, Malay and German (A1 Level)
- Passionate in self-improvement in various aspects, e.g., participating in Coursera and Udemy courses.