

# TAN CHOO HUI

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## OBJECTIVE

Graduation of Bachelor Degree of Computer Science (Honours) with specialize in Data Science in Multimedia University. Published paper at IEEE ICIP 2023, presented orally.

Currently seeking an opportunity to have an Artificial Intelligence Researcher position in order to increase experience and enhance my resume.

## TECHNICAL SKILLS

**Programming Skills:** Python, Java, C++, HTML, CSS, JavaScript, R, SQL

**Frameworks and Tools:** PyTorch, Keras, TensorFlow, Scikit-Learn, NumPy, Pandas, Matplotlib, Seaborn, OpenCV, Tableau, MATLAB, D3, PyQt, KIVY, JavaFX

**Human Language:** Mandarin, English, Malay

## EXPERIENCE

**Meta Research Footfallcam | Selangor, Malaysia**

**May 2022 – Aug 2022**

*Artificial Intelligence Internship*

- **Artificial Intelligence Project**
  - Train a model to detect human faces and determine the age of the people and apply it to the company's camera.
  - Recleaning the dataset get from the supervisor into difference age classes, based on Asian people Facial and annotation document.
- **Company Product Tuning Service**
  - As the head of all the intern, my major mission is to keep connection with customer to collect the footfall counting camera that has low accuracy and assign to all the intern included myself to do the tuning service and make sure all the process can be done in time.
  - I also needed to attend all the meeting and collaborate with the business and management team to make sure those huge projects going smooth and complete within the period.
  - Within the period I as the head of the intern, I successfully improve the Google Sheet documentation that used to track the progress of tuning services by insertion of SQL and make multiple SQL commands to fetch the data from Microsoft SQL to Google Sheet manually.
  - I also had transformed those record to company Thingsboard via direct linking of Microsoft SQL to the web with using the SQL command in visualize form for daily stand-up meeting to let all the department head knows what our department progress.
- **Database Management and Maintenance**
  - There is multiple databases used by company, there are a lot of issues complaint by the customer like duplicate data, no data entry and not tally between difference interface or database issue, I be the one who responsible and work with my supervisor to solve those issue.
  - I had done a bunch of code in python to make an auto insertion of multiple data to tackle the problem.
  - I also had successful detect the bug on Apache Pulsar and raise the ticket on GitHub to Apache Team.

## EDUCATION

**Multimedia University | Selangor, Malaysia**

**April 2020 – Aug 2023**

Bachelor Degree of Computer Science (Honours), Data Science Specialization

- CGPA: 3.60 / 4.00
- Dean's List Award
- Best Final Year Project Award (Project Title: HER2-SISH Histopathology Image Classification Using Deep Learning Neural Network)

**Sekolah Menengah Kebangsaan Tasek Utara | Johor, Malaysia**

**June 2018 – December 2019**

Malaysian Higher School Certification (STPM)

- Courses: Biology, Chemistry, Mathematics (T), Pengajian Am
- CGPA: 2.33 / 4.00

## PROJECT

**Her2-SISH Histopathology Image Classification Using Deep Neural Networks (PyTorch, TensorFlow)**

- To investigate the application of deep learning to classify HER2-SISH (silver enhanced in situ hybridization) pathological images and identifies their HER2/Chr17 amplification status.
- The dataset is obtained from University Malaya Medical Center (UMMC) with annotation documentation and being augmented by us to form a valid dataset.
- This project is published as conference paper on **2023 IEEE International Conference on Image Processing (ICIP)**.
  - DOI: 10.1109/ICIP49359.2023.10222930

## REFERENCES

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