

TAN YU HOE

AI Engineer / Data Scientist / Tech Evangelist

Singapore

yuhoetan@gmail.com ♦ www.linkedin.com/in/yu-hoe-tan/ ♦ github.com/tyh71

WORK EXPERIENCE

GovTech Singapore

Singapore

AI Engineer Intern

Apr 2022 – Jun 2023

- Main engineer for photo relevance study in municipal feedback cases for MSO (Municipal Services Office). Proposed and developed an Image Relevance model using zero-shot image classification and embedding similarity methods. Achieved 97% accuracy without model training.
- Evaluated the performance of zero-shot visual-language models (CLIP and OWL-ViT) as general-purpose computer vision capabilities, for visual recognition use cases with limited labelled data.
- Implemented interactive web interfaces and backend APIs for zero-shot object detection, using Gradio, FastAPI, PyTorch, Docker, and HuggingFace transformer SDK.

EDUCATION

Singapore Polytechnic

Singapore

Diploma in Applied AI and Analytics

Apr 2020 – May 2023

- **Honors:** 3.8 / 4.0 GPA
- **Courses:** Statistics, Python for Data Analytics, AI & Machine Learning, Deep Learning
- **CCA Grade:** Gold with Honours
- **Distinctions:** ST0503 Back-End Web Development, ST1511 AI and Machine Learning, ST1504 Deep Learning, ST3004 Infocomm Professional Seminar

LEADERSHIP AND ACTIVITIES

SP Artificial Intelligence Student Chapter

Singapore

Operations Head

Dec 2020 – Mar 2022

- Led a project team that developed a headline-based fake news detection application for showcase in Singapore Polytechnic's Open House and Engineering Show 2022
- Hosted a Kaggle In-Class competition aimed to provide opportunities for members to hone their expertise through a curated dataset with real-world application
- Curated teaching materials and taught concepts on Data Science workflows and Machine Learning concepts for two data-science-related workshops

PROJECTS

Meals with Wheels

Volunteer Lead

Aug 2022 – Oct 2022

- Liaising between Singapore Polytechnic and TOUCH Community Services
- Developing and implementing logistical plans for meal delivery routes
- Prioritizing the safety of volunteers and elderly recipients, strictly adhering to COVID-19 (Temporary Measures) Regulations 2022

HONORS AND AWARDS

NUS LifeHack 2023 - First Place + sgID Award

Singapore

Issued by NUS Computing Club

Jun 2023

- Developed AquaWise, an AI-powered Sustainable Shopping Companion focused on promoting mindful consumption practices among consumers by integrating with popular e-commerce platforms, such as Shopee.

LICENSES AND CERTIFICATIONS

Google Data Analytics

ID: 5D46PZTLVV9Q

Issued by Coursera

Apr 2023

Google IT Automation with Python

Issued by *Coursera*

ID: 878DAB3LU5FY

Jan 2023

NVIDIA - Fundamentals of Deep Learning

Issued by *NVIDIA*

ID: 1-emxFVgQeCHCjNv8HtyXg

Feb 2022

AI FOR INDUSTRY® - Foundations in AI

Issued by *AI Singapore*

ID: 46333377

Feb 2022

SKILLS, LANGUAGES, INTERESTS

- **Languages:** English (Native Speaker), Chinese (Native Speaker)
- **Programming:** Python, SQL, Javascript
- **Tools:** Git, Docker, Visual Studio Code
- **BI & Data Analytics:** Tableau, Jupyter Notebook, Numpy, Pandas, Plotly, Statistics