TAN YU HOE

AI Engineer / Data Scientist / Tech Evangelist

Singapore

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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   Aug 2017 – May 2023
- **Honors**: 3.8 / 4.0 GPA
- **Courses**: Staistics, Python for Data Analyitcs, AI & Machine Learning, Deep Learning
- **CCA Grade**: Gold with Honours
- Distinction in ST0503 Back-End Web Development, ST1511 AI and Machhine Leanring, ST1504 Deep Learning, and 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

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 *Cousera*   Apr 2023

Google IT Automation with Python   ID: 878DAB3LU5FY
Issued by *Coursera*   Jan 2023

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