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
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LICENSES AND CERTIFICATIONS

Learning How to Learn: Powerful mental tools to help you master tough subjects ID: 1MPR3CVR3SUM3
Issued by *Coursera* Sep 2021

SKILLS, LANGUAGES, INTERESTS

- **Languages**: English (Native speaker), German (Native speaker), Japanese (Basic proficiency)
- **Soft Skills**: Public Speaking, Debating, Communication, Critical Thinking, Leadership, Persuasive Writing, Technical Writing
- **Programming**: Python, SQL, PostgreSQL, MATLAB/Octave, HTML, CSS, Javascript, Typst, LaTeX
- **Tools**: Microsoft Word, Git, Docker, Visual Studio Code, Canva
- **Web Development**: React, Next.js, million.js, Svelte & Sveltekit, Tailwind CSS, Node.js, Deno, FastAPI, Flask
- **BI & Data Analytics**: Microsoft Excel, Microsoft Power BI, Jupyter Notebook, Numpy, Pandas, Plotly, Altair
- **Interests**: Video Games, Anime, Reading Non-fiction, Classical and Original Soundtrack Music