

Thanakorn Sin-on

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Education

Thammasat University

Bachelor of Science in Data Science and Innovation | GPA: 3.62

Aug 2024 - Present

Experiences

Student Committee | College of Interdisciplinary Studies

President of the Student Committee

May 2025 - May 2026

- Led World of Data Camp 2025 by managing 5 functional teams comprising 40 members to deliver a 3-day data science bootcamp for 30 high school students, designing 5 industry-aligned case studies, bridging theory with real-world business application and achieving 90% satisfaction ratings with 100% final project completion.

Data Strategy Consulting Club | Thammasat University

Data & AI Consultant

Aug 2025 - Jan 2026

- Built an end-to-end CRM Analytics system as a team of 4 for a Work and Travel business managing ~2,000 student leads annually, automating proactive follow-ups via LINE and reducing manual monitoring time by 87%, saving ~350 hours per staff member per year. Developed a cloud-based solution using Python, Pandas, Streamlit, and Google Cloud Platform, including Cloud Run and Firestore, to enable automated lead prioritization and real-time sales dashboards.

Projects

Member of Parliament Asset Scanner | [GitHub]

POLITICALDEVTH Hackathon

Nov 2025 - Dec 2025

- Led a 5-member team to engineer a two-stage extraction pipeline for **92 Thai MP asset declaration PDFs** — using **Docling + EasyOCR** for document parsing and **Gemini 2.5 Flash** for structured JSON extraction into **13 normalized .csv tables (~157 fields)** — addressing Thai-specific NLP challenges including Buddhist calendar conversion and absent word boundaries — achieving **91.2% Digitization Quality Score** at **\$2/PDF**, **71% cheaper** than a pure Vision LLM approach.

GunGong AI-Powered Fraud Detection | [GitHub]

LINE HACK 2025

Oct 2025 - Nov 2025

- Secured 2nd Runner-Up among 100+ teams by leading a 5-member team to develop an AI-powered anti-fraud LINE Bot using **Gemini 2.5 Flash Lite** — engineering a multi-layer Thai NLP detection pipeline addressing challenges including absent whitespace delimiters and adversarial code-switching, covering **300+ fraud patterns across 13 scam categories** — achieving **95%+ accuracy**, **<500ms response time** for pattern-matched threats, and reducing repeated query cost to **<\$0.035 per 1,000 requests** through a 65% cache hit ratio, delivered within a 5-day timeline.

Durian Leaf Disease Classification | [GitHub]

Durian Hackathon 2025

Jan 2025 - Feb 2025

- Led a 3-member team to build a durian leaf disease classifier using **ConvNeXt V2** (ImageNet pretrained) with **transfer learning and fine-tuning** via **timm** and **PyTorch** — tackling a highly imbalanced 4-class dataset of **278 training samples** through **Albumentations** data augmentation and **Apple Silicon MPS acceleration** — delivering a full end-to-end pipeline spanning EDA, augmentation, training, and inference notebook — achieving **85.71% Macro F1** across all disease classes and finishing among the top finalists out of **23 competing teams**.

Honours & Awards

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| • 2nd Runner-Up — LINE HACK 2025 (100+ teams), GunGong AI Anti-Fraud Platform | Nov 2025 |
| • 1st Place — GPF Hackathon: Freedom For Living (8 teams), My GPF Health Reward System | Feb 2025 |
| • Top 11 Finalist — POLITICALDEVTH Hackathon, Member of Parliament Asset Scanner | Dec 2025 |
| • Top 30 Finalist — Thammasat Startup The Next Gen 2025, NaNet Smart Farm | May 2025 |
| • Top 30 Finalist — Durian Hackathon 2025, Durian Leaf Disease Classification | Mar 2025 |

Skills

NLP & Generative AI: NLP, LLMs, Agentic AI, HuggingFace, Llama.cpp

Machine Learning & Deep Learning: PyTorch, TensorFlow, Keras, Scikit-Learn

Data Science: Statistical Analysis, Pandas, NumPy, Matplotlib, Seaborn

Cloud, MLOps & Deployment: Google Cloud Platform (GCP), Cloud Run, Firestore, Docker, Git, Streamlit

Databases & Operating Systems: MySQL, MongoDB, Linux (Ubuntu)

Programming & Scripting: Python, SQL, R, Bash/Zsh

Languages: Thai (Native), English (Limited Working Proficiency)