



Nuttasit Tinmas

Applied AI Engineer / AI Software Engineer Intern

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ABOUT ME

AI Engineering undergraduate building end-to-end ML systems across speech & language, computer vision, recommendation, and cybersecurity threat detection. Turn messy data into reproducible pipelines EDA, feature engineering, model evaluation, retrieval, APIs, and user-facing apps spanning Thai ASR, bilingual NLP, semiconductor defect detection, AI recommendations, and ML/DL threat detection. Seeking an AI/ML internship to contribute across data, modeling, evaluation, and deployment.

EDUCATION

Prince of Songkla University (PSU) | Artificial Intelligence Engineering | Cumulative GPA: 3.17 **2023 - Present**
Focus: machine learning, deep learning, computer vision, and NLP, taught through project-based modules (AI systems development, intelligent machine vision, AI for robotics/automation) alongside core math, software engineering, and database foundations.

CERTIFICATIONS & AWARDS

- Google AI Professional Certificate - Google
- AI Engineer for Developers Associate - DataCamp
- Hugging Face LLM Course – Hugging Face
- Intermediate SQL - DataCamp
- 1st Runner-Up, NCSA Mini CTF Competition - National Cyber Security Agency

PROJECT EXPERIENCE

- Saranote** | Thai ASR & grounded meeting intelligence **July 2026**
- Developed a Thai meeting-intelligence pipeline combining Whisper/Typhoon ASR, Thai-aware normalization, timestamped transcript cleaning, PDF/PPTX evidence retrieval, and grounded question answering.
 - Built n8n workflows connecting webhooks, Gemini, Gmail, APIs, and PostgreSQL to validate payloads, email meeting summaries, notify reviewers, and send scheduled reminders without duplicates.
- SentimentAnalysis EN-TH** | Bilingual sentiment classifier **January 2025**
- Developed separate TensorFlow/Keras models for English and Thai using language-specific preprocessing and PyThaiNLP tokenization.
 - Served negative, neutral, and positive predictions through a Flask UI and JSON endpoint with confidence scores, input validation, CSRF protection, and rate limiting.
- Sillage** | AI recommendation & conversational RAG **June 2026**
- Built an AI fragrance recommendation engine using guided preference signals, stock-aware filtering, and Gemini/LangChain ranking to select and explain the top three catalog matches.
 - Implemented source-cited conversational RAG for TXT/PDF/CSV knowledge using Vertex AI embeddings, sqlite-vec semantic search, retrieval thresholds, and chat history for grounded follow-up answers.
- DefectScope** | Deep-learning wafer defect classification **July 2026**
- Designed a compact 666,633-parameter PyTorch CNN for nine WM-811K wafer-map patterns using two-channel categorical encoding, augmentation, class-weighted loss, early stopping, and cross-split deduplication.
 - Achieved 95.01% test accuracy and 88.79% macro-F1; used n8n for API validation, PostgreSQL audits, Gemini review, Gmail alerts, scheduled reports, and error handling.
- MalwareDetection** | ML/DL threat detection system **March 2025**
- Built a Flask threat-analysis application spanning 25-family CNN malware image classification, Windows PE-file detection, and phishing-URL detection.
 - Compared XGBoost and Random Forest on PE features and five classical URL models; integrated TensorFlow/Keras and XGBoost artifacts with PE extraction and JSON responses.

SKILLS

Spoken Languages: Thai (Native), English (Intermediate working proficiency)

Programming Languages: Python, C, C++, CUDA, SQL, Bash

ML & Data: TensorFlow, Keras, PyTorch, scikit-learn, XGBoost, NumPy, pandas, EDA, feature engineering, imbalanced learning

NLP, Speech & GenAI: Hugging Face Datasets/Transformers/Pipelines, Whisper, Thai ASR, PyThaiNLP, RAG/retrieval, LangChain, OpenAI API, Vertex AI

Computer Vision: OpenCV, YOLOv8/Ultralytics, EasyOCR; image classification, object detection/tracking, OCR, QR/barcode and EXIF analysis

Engineering & Platforms: FastAPI, Google Cloud Platform, Flask, REST/JSON APIs, WebSockets, Alembic, SQLite, PostgreSQL/Supabase, Docker, Jupyter, Git, Linux, n8n workflow automation