

Sai Wai Yan Phyo (Sai)

AI/ML Engineer

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Profiles

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🤖 Hugging Face

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📊 Kaggle

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Summary

Fresh graduate Data Engineer with a strong data foundation — SQL, Python pipelines, Automation and NLP preprocessing at scale. Applies that data fluency to build LLM and computer vision applications.

Education

Sirindhorn International Institute of Technology
Digital Engineering

Bachelor of Engineering
Thailand • 4 years

Tools

SQL

Automation

Hugging Face

N8N

LangChain

Tableau

Power Automate

Excel

Experience

NECTEC

Thailand

Machine Learning Research Intern

Jun 2025 - Oct 2025

- Supported development of myMediCon, a Myanmar-language medical NLP corpus at NECTEC, processing 100K+ records through **data collection**, **cleaning**, and **text chunking** using **Python** and **SQL**
- Applied **Hugging Face** tools for NLP preprocessing, contributing to low-resource language model research across text and speech modalities

Projects

Parkinson's Disease Pre-Detection Screening System

A two-stage screening system combining NLP-based clinical record scoring and MobileNetV2 CNN hand-drawing classification, fused via weighted scoring and deployed as a Gradio web app on Hugging Face Spaces.

Tech: **Python, Keras, MobileNetV2, PyThaiNLP, Gradio, Hugging Face Spaces**

Tourism ChatBot

Built a TypeScript-based conversational AI application using the Gemini API for intelligent tour guidance, featuring a React/Vite frontend with Tailwind CSS. Achieved full-stack integration between an HTML frontend and AI-powered backend responses.

Tech: **TypeScript, React, Vite, Tailwind CSS, Google Gemini API**

Hand Motion Capture with OpenCV2

A personal hobby ML project to control my Macbook volume using handgestures.

Tech : **OpenCV, Python, NumPy, AppleScript**

My Personal Data Dashboard

This is my school data visualization project. The dashboard displays my personal data over one month, including water intake, coffee consumption, expenses, and other daily metrics.

Tool : **Excel, Google Data Studio**

Publications

Deep Learning-Based Human Emotion DetectionUsing Convolutional Neural Networks

November 16,2025

Sai Wai Yan Phyo

Built a CNN from scratch to classify seven facial emotions (Angry, Disgust, Fear, Happy, Sad, Surprise, Neutral) using the FER-2013 dataset (24,400 images). Applied **batch normalization, dropout regularization, and data augmentation**.

Tech: Python, Keras, CNN

Volunteer

VarCamp

I participated as an organizer at VarCamp since the beginning, VarCamp 2022,2023,2024,2025.

<https://var.camp/>

Interests

 IoT Project

 Digital Mapping

 Data Dashboard

Languages

Burmese	English
Native	Professional