

Thirawat Phongsathatkit

Thon Buri, Bangkok 10600, Thailand | thirawatp9@gmail.com | (+66) 944345201

medium.com/@thirawatphongsathatkit | linkedin.com/in/thirawat-phongsathatkit | github.com/thirawat69

Summary

Data Scientist with 2+ years of experience in banking, specializing in fraud prevention and decision support. Partner with business stakeholders to analyze large-scale data, ship models, and deliver reports that executives can act on.

Relevant Skills

- **Core Tools:** Python, SQL-on-Hadoop/Hive, Shell scripting, Linux commands.
- **Strengths:** Fraud analytics, investigative analysis, insight generation, and stakeholder communication.

Experience

Data Scientist, T.N. Digital Solutions Co., Ltd., Bangkok, Thailand Jul 2023 – Present

- **Fraud Protection (banking apps):** Analyzed fraud cases and developed protection strategies; built a model for a tier-1 Thai bank's mobile apps that helped safeguard 10M+ customers and prevented ~THB 30M in losses.
- **Executive reporting:** Designed clear, actionable reports for non-technical stakeholders for monthly executive board presentations.
- **Insights & forecasting:** Delivered loan volume forecasts for a THB 1B campaign and sentiment analysis across 100+ branches to prioritize service fixes.
- **Anomaly monitoring:** Developed a dynamic threshold-based monitoring approach using time-series decomposition to replace static thresholds, improving alert relevance and reducing false alarms.
- **RAG proof of concept:** Prototyped a retrieval-augmented system using Qdrant (vector DB) and OpenAI embeddings to improve information access.
- **Digital workflow transformation:** Converted paper-based processes to digital using Power Automate, enabling downstream data availability for process analysis.

AI Engineer Apprentice, Super AI Engineer Season 2 Jan 2022 – Aug 2022

- Selected as 1 of 200 from 5,000+ applicants; contributed to data preprocessing, model development for real-world problems, workflow management, and pitching.

AI Engineer Intern, Chanwanich Company Limited Jun 2022 – Jul 2022

- Developed **PyThaiAddr**, an open-source Python library for Thai address processing (spelling correction, tokenization) using Norvig, SymSpell, and edit-distance methods; released on PyPI with docs and notebooks.

Education

B.Sc. in Computer Science, King Mongkut's Institute of Technology Ladkrabang Aug 2019 – Jun 2023

- **GPA:** 3.28/4.00 (Second Class Honors)
- **Academic project:** Hemorrhagic stroke segmentation on brain CT
 - Built and evaluated CNNs (FCN-8s, SegNet, U-Net) on a manually annotated dataset of 1,576 CT scans, with annotations verified by a radiologist.
 - Achieved IoU 82.29% and Dice 85.74% with U-Net; delivered a proof-of-concept tool to assist clinical interpretation.

Awards & Competitions

Winner - OPEN Budget Track, Open Parliament Hackathon 2024

- Co-designed *Du Ngop*, a civic tech platform that opens the national budget of Thailand to public scrutiny through collaborative review and upvoting of suspicious items.