

Napattarapong Chockwiriya

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Objective A Data Scientist with a focus on Retrieval-Augmented Generation (RAG) and vector database optimization

Education **Bachelor of science** **Chulalongkorn University**
Majors: Mathematics Expected: May 2027

Related Coursework

Statistics, Time-series, Database Systems , NLP Research topic,
Deep learning, Machine learning, Programming, Probability

AMI Hackathon Certification **College of Advanced Manufacturing Innovation, KMITL**
Gold Medal November 2022

EXPERIENCE

Semantic Research Paper Search & Summarization Engine **Personal Project**
Project Developer February 2026

- Built a local AI research assistant using FastAPI, FAISS, and Llama-3 (Ollama) to perform semantic search and summarize academic papers.
- Implemented vector-based search using SentenceTransformers to retrieve contextually relevant documents based on user queries.

PetAdoption Kaggle **Project in Applied Deep Learning, Chulalongkorn University**
Data analyst, ML engineer February 2026

- Managed in planning project about multimodal machine learning
- Built scalable end-to-end machine learning pipelines using Scikit-learn such as data preprocessing, transformation, model training, and validation
- Performed feature engineering and feature selection to improve model performance and reduce overfitting.

R studio project **Final Project in Stat Method, Chulalongkorn University**
Data collector, Proposer March 2025

- Managed in planning project about Muti-regression and Experimental Design.
- Created an useful idea.
- Present to mentor.

AMI-Hackathon#2 **College of Advanced Manufacturing Innovation, KMITL**
Data collector November 2022

- Developed a function to solve problem .
- Created an useful function.
- Collect data from raw material to Labeling Model by CiRA CORE.

Skills/Abilities

Computers

- AI/ML & Deep Learning Concepts
- Large Language Models (LLMs)
- Retrieval-Augmented Generation (RAG)
- Vector Databases
- Python & Java with understanding of OOP concepts

General Skills

- Statistics & Mathematics
- Research proposal analysis
- Prompt Engineering
- Strong analytical thinking and communication skills