

Kadipa Aung Myo Han

AI/ML Engineer | PhD Candidate (Model Compression) | 3 IEEE Publications

kadipa.amh@gmail.com | (+66) 65-901-4150 | Bangkok, Thailand | kadipa.github.io | github.com/Kadipa | [LinkedIn](#)

The gap between academic research and production engineering is a choice, not a reality. 4+ years working across both — publishing computer vision research in IEEE while building AI systems in fashion-tech, agriculture, and public data infrastructure. Core stack: Python · PyTorch · FastAPI · Docker · AWS (S3, Lambda, Redshift, Glue) · Node.js/TypeScript · dbt · Airflow · Terraform

EXPERIENCE

Six Atomic Co., Ltd. — Algorithm Engineer

Bangkok, Thailand | Feb 2022 – Present (4+ years) | Fashion-tech / CAD

- Designed mathematical algorithms for automated clothing pattern grading — the core engine of the product. Achieved sub-second processing time.
- Built MVP/POC systems in Python and Node.js/TypeScript on AWS Lambda with S3 storage, validating product concepts from idea to working prototype.
- Collaborated across frontend, UI/UX, backend, and pattern teams. Created user stories and business logic documentation for new features.

HexCode Technologies Inc. — Data Scientist

Yangon, Myanmar | Jan 2021 – Dec 2021

- Built a house price prediction system on Singapore government data, from data pipeline through model training to interactive dashboard.
- Developed a Moodle analytics platform tracking student and teacher engagement metrics across courses.

Bindez Pte. Ltd. — Research Intern | Yangon/Singapore | Jun – Dec 2016

- Built Myanmar-language NLP tools (parser, tokenizer, normalizer) and contributed to hate speech detection research.

Vision to Motion Myanmar — Intern | Yangon | May – Sep 2017

- Collected data from 20 local lottery shops and built a prototype lottery checking website (full-stack Ruby on Rails).

PROJECTS

Plant Doctor: RAG + LLM + Agentic AI System (PhD Research Prototype | [GitHub](#))

- CNN classification for plant disease detection with knowledge distillation: EfficientNet → MobileNet (60% size reduction, 3x speedup).
- RAG pipeline (CV classification → knowledge base → LLM response) with Ollama/Mistral + OpenAI. Agentic hyperparameter search. MLflow tracking.
- Deployed: FastAPI backend + Streamlit UI + Docker Compose (2 containers).

NYC DOB Data Pipeline: End-to-End ETL (DataTalks Zoomcamp | [GitHub](#))

- Batch ETL: DLT ingestion → S3 → Glue Catalog → Redshift. Transformation with dbt, orchestration with Airflow DAG, IaC with Terraform. Metabase dashboard.

EDUCATION

Doctor of Engineering — Electrical Engineering | KMITL, Bangkok | 2022 – Present (Doctoral Scholarship)

Research: Knowledge Distillation, Model Compression, Computer Vision. Advisor: Asst. Prof. Dr. Ukrit Watachareeruetai

Master of Engineering — Computational Intelligence Systems | KMITL | 2018 – 2020 (Fully Funded Scholarship)

Bachelor of Computer Science — Knowledge Engineering | UIT, Myanmar | 2012 – 2017

PUBLICATIONS

- **Banana Plant Nutrient Deficiencies Identification using Deep Learning** — ICEAST, IEEE, 2023
- **Black Gram Plant Nutrient Deficiency Classification Using CNN** — iEECON, IEEE, 2020
- **Classification of Nutrient Deficiency in Black Gram Using Deep CNNs** — JCSSE, IEEE, 2019

TECHNICAL SKILLS

ML/DL: PyTorch, TensorFlow, Scikit-learn, CNNs, Transfer Learning, Knowledge Distillation, Model Compression | **LLM/AI:** Ollama, OpenAI API, RAG, Agentic AI

Languages: Python, Node.js/TypeScript, SQL, R, Ruby on Rails, Java | **Data Eng:** DLT, Airflow, dbt, Terraform, AWS (S3, Lambda, Redshift, Glue), GCP

Tools: Docker, FastAPI, MLflow, Git, Metabase, Streamlit, REST APIs | **DB:** PostgreSQL, Redshift, MongoDB

SPEAKING & CERTIFICATIONS

Women in AI Myanmar — Regular speaker on applied AI and knowledge distillation | **GDG Yangon** — ML Paper Reading Club Mentor

DLT Fundamentals (dlthub) | Google Cloud Skills (Chaayo GCP) | Problem Solving – Intermediate (HackerRank) | FE Exam | IT Passport Exam