

SUKUM DECHA

COMPUTER ENGINEER STUDENT

Co-operative Education

Apr 2025 – Sep 2025 (6 months)

CONTACT

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EDUCATION

KASETSART UNIVERSITY

- Bachelor degree of computer engineer
 - GPA 3.04
- 2023 - Present
Expected Graduation: 2027

TECHNICAL SKILLS

Languages

- Python, JS/TS, SQL

Web Development

- React, FastAPI, REST API

Machine Learning/ Deep learning

- Data preprocessing, feature engineering
- Model training & evaluation
- PyTorch, scikit-learn
- LSTM, CNN, KNN, vector-space models

Database

- Data warehouse, 3NF
- mySQL, mongoDB

Tool

- git

SOFT SKILLS

- project management
- Team collaboration
- Problem-solving
- System Thinking

LANGUAGES

- Thai: Native
- English: Intermediate

PROFILE

I have experience in machine learning, deep learning, data preprocessing, and software development. With a strong foundation in algorithms and mathematics, I understand how ML/DL models work across different architectures. I enjoy applying AI to improve system performance, optimize backend processes, and build smarter software.

PROJECT EXPERIENCE

Imbalance Data Classification

Machine Learning, Data-Preprocessing, Personal Project

- Explored methods for balancing datasets (undersampling, oversampling, SMOTE).
- Tuned KNN model using grid search and preprocessing pipeline.
- Evaluated performance across accuracy, recall, and f1-score.

Result: From baseline (only KNN) with accuracy 0.78 can increasing to 0.97 by over-sampling method, increase minor class f1-score from 0.54 to 0.95

Gold price prediction

Deep learning, Personal Project

- Designed and trained a deep learning model (LSTM) to predict whether the gold price will rise or fall within the next 15 minutes
- Built a preprocessing pipeline for financial time-series data.
- Evaluated model performance using accuracy and f1-score, and improved the training process to prevent the model from predicting only one class.

Result: Achieved 0.52 accuracy with strong upward prediction f1-score of 0.61

Bookstore application

Full-stack Developer, Database Designer

- Developed a web-based management interface for data administration using
- Designed and implemented the database schema (3NF) in mySQL.
- Integrated frontend-backend communication through REST APIs

Result: System operates correctly and reliable data synchronization.

Community application

Project Manager, System Design and Database Design

- Led a team of 12 engineers, managed project timeline and deliverables.
- Designed core system modules: user roles tree structure.
- Designed database schema and system architecture.

Result: Delivered a deployable version within the project timeline.