SUKUM DECHA

COMPUTER ENGINEER STUDENT

Intern(Co-op)
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, JavaScript/TypeScript, SQL

Web Development
- React, FastAPI,

Machine Learning
- PyTorch, scikit-learn
- LSTM, CNN, KNN, transformer

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 am a Computer Engineering student specializing in Machine Learning, Deep Learning, and Software Development. I have hands-on experience in model building, data pipelines, system design, and full-stack development. I am particularly interested in applying AI/ML to real-world systems, including automation, prediction systems, and enhancing application features with intelligent capabilities.

PROJECT EXPERIENCE

Imbalance Data Classification
Machine Learning, Data-Preprocessing
- Design Machine learning for classification customer churn
- 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 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
- 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

Community application
Project Manager, System Design, 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 and application function work correctly.

Bookstore application
Full-stack Developer, Database Design
- Developed a web-based management interface for data administration.
- Designed and implemented the database schema (3NF) in mySQL.
- Integrated frontend-backend communication through REST APIs

Result : System operates correctly and reliable data synchronization.