PITHAWAT KITMONGKOLCHAI

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EDUCATION

Bachelor of Computer Engineering   **2023 - Present**
King Mongkut's Institute of Technology Ladkrabang

TECHNICAL SKILL

- Programing language : Python, Golang, Typescript, SQL
- libraries & Framework : Node.js, Gin, React, Next.js, Pandas, Keras, Tensorflow
- Tools & Technologies : Redis, Docker, Jenkins, GCP

INTERNSHIP EXPERIENCE

Datapro Computer Systems Co., Ltd.   **April 2025 - June 2025**

- Executed end-to-end feature delivery for insurance management, including **Golang** microservice development for transactional APIs, front-end implementation using **Next.js**, and integration of **Elasticsearch** for scalable log aggregation and real-time operational auditing.

PROJECT EXPERIENCE

TA-management system

- Developed a TA management system using **Next.js** for the frontend and **Golang** (Gin framework) for the backend.
- Integrated **Redis** for caching to optimize system performance and reduce database load.
- Developed and managed an automated CI/CD workflow using **Jenkins**, integrating a comprehensive suite of integration tests to ensure code quality and enabling controlled deployment to server environments.

Global Life Expectancy Prediction and analysis

- Conducted a full-cycle machine learning project to analyze and predict life expectancy.
- Performed Exploratory Data Analysis (EDA) to determine the correlation of all features with the target variable.
- Managed the entire modeling pipeline, including hyperparameter tuning using GridSearchCV and advanced techniques like early stopping and learning rate decay for gradient boosting models.

LLM Fine-Tuning for UI Code Generation

- Fine - tuned a CodeT5 model to generate UI code (HTML,React) from natural language descriptions
- Designed a custom dataset for UI development tasks
- Implemented a UI suggestion function to element based on user input