

# Yoskorn Lertratanakham

Computer science graduate with a focus on data and machine learning, experienced in data engineering internships and hands-on with various data-related projects.

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## EDUCATION

### Bachelor of Computer Science | 2018 – 2022 | Thammasat university

Minor in Data Science | GPAX: 3.83 | First-class honors.

**Language Skills:** Thai (Native), English (Working Proficiency Plus)

**English Proficiency:** TOEIC Score 835

## TECHNICAL SKILL

**Programming language:** Python, SQL, JavaScript

**Frameworks and tools:** React.js, Next.js, MongoDB, MySQL, Apache Airflow, Pandas, Keras, Docker, Linux Command, Shell Script, AWS (EC2, S3), GCP (Cloud Composer, BigQuery), Git/GitHub

## EXPERIENCE

### Freelance Developer

January 2023 – May 2023

- Developed a system using computer vision and Deep Neural Networks to classify infected silkworms, along with a user-friendly web interface using Python.
- Trained Deep Neural Network models to identify infections based on movement, enhancing detection accuracy for improved sericulture management.

### Software Developer Intern | Geneus Genetics CO., LTD

March 2022 – June 2022

- Developed ELT processes using Python and Apache Spark to efficiently extract, transform, and load data from raw text files into AWS Cloud storage.
- Developed applications utilizing Flask and REST API to query processed data, containerized, and deployed on AWS.

## PROJECT

### Thai stock market price prediction model using sentiment analysis from textual data.

Machine Learning, Data Integration, Data Cleansing, ETL

- Developed a hybrid prediction framework combining Principal Component Analysis (PCA), Empirical Mode Decomposition, and Long Short-term Memory (LSTM) to forecast stock market closing prices.
- Published in a Q2-ranked international journal.

### Social Media Website: ThaiEggHead

Web Application Development

- Collaborated with a team to develop a web application serving as a social media website, utilizing the MERN Stack.
- Contributed to UI/UX design and front-end development.

### Portfolio Website: [yoskorn.site](https://yoskorn.site)

Web Application Development

- Developed a portfolio website using Next.js with Tailwind CSS.

## CERTIFICATE / COURSE CERTIFICATE

- ETL and Data Pipelines with Shell, Airflow and Kafka
- Python for Data Science, AI & Development
- Hands-on Linux Commands and Shell Scripting
- Introduction to Data Engineering

## PUBLICATION

Srijiranon, K., **Lertratanakham, Y.**, & Tanantong, T. (2022). A Hybrid Framework using PCA, EMD and LSTM Methods for Stock Market Price Prediction with Sentiment Analysis. *Applied Sciences*, 12(21), 10823. <https://doi.org/10.3390/app122110823>

**Lertratanakham, Y.**, Wongsorn, A., Meewongaukote, P. (2021). Northern Thai Food Recommendation System for Travelers. *The 9th ASEAN Undergraduate Conference in Computing (AUCC)*, pp. 782-789

## SOFTWARE CONTEST / COMPETITION

- |            |   |
|------------|---|
| 2022       | <b>Thailand Machine Learning for Chemistry Competition</b> <ul style="list-style-type: none"><li>• Achieved 10th place in a competition with 76 participating teams</li><li>• Collaborated to create a machine learning model for predicting properties of Metal Organic Frameworks</li></ul> |
| 2021, 2020 | <b>Thailand National Software Contest 2021, 2020</b> <ul style="list-style-type: none"><li>• Entered the northern region round</li></ul>  |
| 2020       | <b>APAC HPC-AI Competition</b> <ul style="list-style-type: none"><li>• Achieved 7th place in a competition with 31 participating teams</li><li>• Collaborated to optimize a high-performance computer for efficient execution of Nanoscale Molecular Dynamics simulations</li></ul>           |
| 2019       | <b>ModDang Bootcamp 2019 Real-World Data Science Challenges</b> <ul style="list-style-type: none"><li>• Entered the semi-final round</li><li>• Collaborated to present the “Social Mind” application, assisting customers in making purchasing decisions</li></ul>                            |
| 2019, 2018 | <b>The ICPC Asia Bangkok Programming Contest, at Chulalongkorn University</b>   |

## LEADERSHIP, MEMBERSHIP, VOLUNTEER

- Vice President, Student Committee of Faculty of Science and Technology, Thammasat University
- Head of IT Department, Student Council, Damrongratsongkroh School