

# SAKOLKRIT PENGKHUM

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## DATA SCIENCE

### Education

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#### King Mongkut's University of Technology Thonburi (KMUTT)

2021 - 2025

Bachelor of Computer Engineering

Cumulative GPA: 3.47

#### Innovation and Change Agent Bachelor's Degree Saed Luang Reung Rung scholarship

- 1 Year Full Bachelor's Degree scholarship with Monthly living expenses
- Create MVP of Bright-up, object detection cooking utensils for visually impaired by using Yolo v5

#### Debsirin School

2021 - 2025

Science-Math program (Honor class)

Cumulative GPA: 3.68

### Work Experience

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#### Chung Cheng University

JUN - AUG 2024

Internship

- Improve Rich View Adaptation with fusion technique in Skeleton-based action recognition model by design architecture into 2 streams, which improve the accuracy by 0.2% when compare with baseline model.
- Improve baseline model in Skeleton-based action recognition model by integrating Depth-wise Separable Convolutions into the MS-TCN pathways of the baseline model. The result able to increase the accuracy by 0.15% when compare with baseline model.

Scholarship

- Receive internship scholarship from Chung Cheng University in Electrical Engineering Department lab.
- Receive mobility program scholarship from King Mongkut's University of Technology Thonburi.

#### KMUTT

2023 - 2024

Teacher Assistant for UI/UX Design Course

AUG - DEC 2023

Teacher Assistant for Discrete Mathematics Course

AUG - DEC 2024

#### WEDO Digital Office

JUN - DEC 2022

Part-time, Trainee Digital Labs

AUG - DEC 2022

- Research and implement Naiyana project for WEDO in NLP Lab
- Implemented a new model by using Yolo V5 Pytorch for object detection
- Research and Implement MiDaS monocular depth estimation for measure distance between users and obstacle

Internship, WEDO Young Talent Program

2022 JUN - AUG 2022

- Innovate a solution approved by WEDO by creating Naiyana, computer vision tool to detect obstacle for visually impaired.
- Created a MVP program for object detection by using Python with YOLO Darknet V3
- Display in a lot of Thailand massive event such as Sustainability Expo event, Tech sauce event

## Project, Activity & Achievements

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### SCB10X Bangkok AI Hackathon 2023

NOV 2023

- Chose as a finalist team in this competition on track 1: Model Layer.
- Created our project, YUP, the LRLs dataset that automatically create from Youtube closed captions from HRLs translations.
- My implementation focuses on Evaluate the dataset by finetune example model, and test its performance by comparison cosine similarity between the result and its answer.

### LINE SHOPPING INCUBATOR 2024

2023 - 2024

- Receive second runner-up reward in this competition.
- Create our Idea prototype, Evolve, which is a platform for merchants to create online storefronts.
- My implementation focuses on SLM, which automatically provides detailed explanations of images to simplify organizing products in the storefront.

### Microsoft AI for Accessibility Hackathon 2023

MAY 2023

- 1st Place Winner of Thailand
- Developed NEON, a generative AI for presentation.

### TED Youth Startup: Ideation Incentive Program 2024

AUG 2024

*Founder and CTO of Eduvice, EdTech startup, higher education consultant for high school students*

- Received funding to develop a startup from Ministry of Higher Education, Science, Research and Innovation (MHESI)

### Startup Thailand League 2024

JUNE 2024

*Founder and CTO of Eduvice, EdTech startup, higher education consultant for high school students*

- Received funding to develop a startup from National Innovation Agency (NIA)
- One of the 100 Thai startups selected to showcase their business on Demo Day

### New Regional Startups Platform 2023

AUG 2023

*Founder of COMFY, innovative cushion with ML, reducing the risk of office syndrome*

- Received funding to develop a startup from Science and Industrial Park KMUTT
- 1 in 2 startups selected by Science and Industrial Park KMUTT in Entrepreneurship development project

### KMUTT Hatch Incubation Program 2022

SEP - NOV 2022

*Founder of COMFY, innovative cushion with ML, reducing the risk of office syndrome*

- Received funding to develop a startup from KMUTT Entrepreneurship (Hatch)

## Organizing Event and Hackathons

2022 - 2024

- CAI Club Hackathon 2022: AI hackathon for High school students
- KMUTT Startup Playground: Startup hackathon for KMUTT students from 2022 to 2024
- ISPC 2023 (11th International Senior Project Conference): International Conference event organized by KMUTT
- Boundless Entrepreneurship: Event promotes leadership and innovative thinking in society organized in KMUTT

## Skills

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- **Hard skills:** Python, ML, Database, Scikit-Learn, Torch, Pandas, Data processing, SQL, Database, UI/UX Design, C
- **Soft skills:** Critical Problem-Solving, Cross-cultural Communication, Adaptability and Resilience
- **Language:** Thai (Native), English (TOEIC 870)