

SAKOLKRIT PENGKHAM

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DATA SCIENCE

Education

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

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

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 Eduvince, 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 Eduvince, 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

- **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)