



# THANAPONG LIKHITPARINYA

## DATA SCIENTIST


### PROFILE

I received my bachelor's degree in Mec. engineering at KMUTT, and I'm also interested in data science. I've completed the data science immersive course. I'm self-learning person, who like to write data science blog posts in medium, also enthusiastic to do challenge data science projects that useful to society.

### CONTACTS

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 **LINKEDIN**  
QR - CODE

 **MEDIUM (DATA SCI BLOG)**  
QR - CODE

 **GITHUB**  
QR - CODE

## EDUCATION

**Aug 2022 - Nov 20222 : Data Science Immersive, General Assembly x True Digital Academy**

3 months course - study about data analysis process and build machine learning model

**2018 - 2022 : Bachelor's in ME. Engineering, King Mongkut's University of Technology Thonburi**

GPA : 3.37 (second-class honor)

**2012 - 2017 : Assumption college (Bangrak) [Sci-Math]**

## WORK & ACADEMIC EXPERIENCES

### ● Nov 2022 | License Plate Recognition

Propose an automatic framework for Thai license plate recognition. The method used is YOLOv5 with 1k of international car images. The model obtained best mAP@0.5 at 99.4% on inter. Test set and Precision at 96% for testing over 90 Thai license plates.

### ● Oct 2022 | Depression diagnosis based on Natural Language Processing

Classification model on NLP project to detect depressed individuals base on social media post with accuray more than 75%. This project done by Python3 in Jupyter notebook.

### ● Oct 2022 | Housing Price Prediction

Linear regression model to predict the housing price at Ames by using feature engineering process to give out the best model that perform with  $R^2$  around 0.89 and RMSE 23K.

### ● AUG21 - MAY22 | Electrostatic and particle interaction modeling of inertial electrostatic confinement (IEC) fusion reactor

(organizer and planner) : study the principle of multigrid - IEC device through simulation using XOOPIC, a PIC user-defined code (X based Unix workstation), to predict the number of neutrons emitted for landmine detection.

### ● 2019 - Present | Simulation of Accelerator-Driven Subcritical Reactor for Transmutation of Nuclear Wastes using FLUKA and SERPENT

(Research Assistant) : conceptual design & modeling of the accelerator-driven system using FLUKA and SERPENT, the Monte - Carlo user-defined coding technique (Python based), to evaluate the potential of accelerator-driven in a sub-critical nuclear reactor for the elimination of transuranic wastes and reduce the radioactivity

### ● June 2021 | Internship at CPALL (CAFM - equipment & dev. department)

- Analyse the thickness of PU Foam injection for preventing the condensation and compare with simulation via Ansys to conform to ISO50001  
- Conceptual design heat rejection from the back store of 7-11 by using Ansys

## HARD SKILLS

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**GIT**

**Python**

**SQL**

**Machine Learning**

**Deep Learning**

**NLP**

**Tableau**

**Streamlit**

**Pandas**

**Pyspark**

**Ubuntu**

**MS Excel**

**OTHERS :**

Solidwork

Matlab

Ansys

Microsoft office

Scientific writing & research

**English :**

TOEIC 815 score

## ACHEIVEMENTS & CERTIFICATES

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- Data analytics course by CP scholarship
- CP scholarship student from the academic year 2562 to 2564
- Certificate of Solidworks associate level from Solidworks official
- MATLAB Onramp course completion certificate from MATLAB official
- Python Data Structures from University of Michigan course completion certificate
- Programming for Everybody from the University of Michigan course completion certificate
- Certificate of completion AMEICC Endowed Course with Nippon Steel Thailand
- Certificate of participating FSci Scientific Programming Boot Camp with Python 2020

## ACTIVITIES & VOLUNTEER

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- **2019 | Sustainable Community Project : English for film**  
(organizer & planner) : Organize activities to improve English and collaborative skills for grade 9th students at Wat Dao Kanong High School
- **2019 | Volunteering clean Nong Rhong Temple and release the fish**  
(Participant) : clean temple sanctuary and release fish
- **2019 | ME TUNE UP XIII camp**  
(Welfare personnel ) : prepare foods and drinks for participants and maintain the activities
- **2019 | Cheer meeting activities**  
(Nursing personnel) : nursing participants & organize the recreation for freshy
- **2018 | Volunteering restore the environment of Blue Light Nursery**  
(Participant) : cleaning, arranging & repainting the room

**GITHUB**



**MEDIUM BLOG**



**LINKEDIN**

