PRACHAYA KHOMDUEAN

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Github	**LinkedIn**	**Website**
github.com/jayprachaya	linkedin.com/in/prachaya-khomduean	jayprachaya.github.io/prachaya

I am a data scientist passionate about leveraging artificial intelligence to enhance decision-making in finance and investments. My area of expertise lies in deep learning, particularly in analyzing data and image processing such as yolov8 and Vision Transformer (ViT). Currently, I'm interested in financial portfolio optimization to improve investments and learning how to apply data analytics to finance. I constantly update myself with the latest developments in the AI field.

EDUCATION

Bachelor's Degree of Health Data Science
Aug 2018 - Jun 2022

Princess Srisavangavadhana College of Medicine, Chulabhorn Royal Academy and King Mongkut's University of Technology Thonburi (KMUTT) | GPA of 3.42 (2nd Class Honours)

- This major focusing on the combination of the data science domain and medical knowledge, i.e. deep learning, text analytic, diseases, and precision medicine.

EXPERIENCE

Research Data Management Officer
Aug 2022- Present

Chulabhorn Learning and Research Center, Bangkok, Thailand

- Researching techniques and deep learning models for a medical imaging research project.
- Analyze and clean the clinical data to support the research project.
- Process structured and unstructured data such as clinical data, CT-scans
- Create a Power BI dashboard to track the performance of the organization's research publications.
- Supporting the data management unit for ISO/IEC 27001 implementation.

Internship

Data analyst, NextMed Co., Ltd.
Apr- May 2023

- Developing a Chatbot-Powered Solution for Seamless Patient Document Retrieval by utilizing lanchain freamwork

Medical bioinformatics program, Siriraj, Mahidol University
Jun - Jul 2021

- Developing a computer vision-based image segmentation program to detect dengue virus foci in focus forming assay (FFA) with a specificity rate of 93.75%. Follow this project here: https://github.com/si-medbif/dengue_foci

SKILLS

Hard Skills

- Coding with Python, SQL, HTML, CSS, Basic R
- Experience with Jupyter Notebook/Lab, Colab, Power BI, Power Automate
- Deep learning for image detection and segmentation, Yolov8, Vision Transformer
- NLP: Transformer Language Models, Sentiment analysis, Text analytics, Web scraping

Soft Skills

- Responsibility, Problem-solving, Attention to detail, Creativity, Teamwork
- TOEIC score: 655

PROJECT

Ultra-Wideband Based human activity classification   Mar 2023
- Developed a deep learning model for human activity classification using YOLOv8-CLS and Vision Transformer

Financial QA chatbot   Mar 2023
- Created an information retrieval question-answering system for financial data

Obstacle Avoidance with Reinforcement Learning for Robotics   Feb 2023
- Developed a Q-learning algorithm for obstacle avoidance in robots and created a map for reinforcement learning simulation in Gazebo

Liver lesion detection   Feb 2023
- Developed a deep learning model for the detection of liver lesions, utilized YOLOv8

Skin lesion detection   Feb 2023
- Utilizing the Cira core to detect and categorize skin lesions as malignant or benign, then integrated with the Line API

Research publications dashboard   Oct 2022
- Created a dashboard using Power BI to effectively visualize the performance of the organization and research KPIs

Person Activity Detection   Jun - Jul 2022
- Utilized YOLOv5 to detect human activity in a live video stream from a webcam

CSC web app   Aug 2021 - May 2022
- Predicting precentage of infection, using semantic segmentation technique and Streamlit for prototype implementation

Dengue foci count system   Jun - Jul 2021
- A project aims to count numbers and measure areas of dengue foci from focus forming assay (FFA)

ACTIVITIES

- Participated in Super AI Engineer Season 3: Level 2 (https://superai.aiat.or.th/)   Jan - Mar 2023
- Participated in Super AI Engineer Season 3: Level 1 (https://superai.aiat.or.th/)   Oct - Dec 2022
- Attendance in the competition AI Hackathon Online #1 "Covid-19 Image" for classification of Chest X-ray   2020
- Volunteered for The Princess Mother's Medical Volunteer Foundation at Phayao University   2020
- Attendance in the Princess Chulabhorn International Oncology Conference (PCIOC 2019) at Centara Grand Hotel & Convention Centre, Bangkok, Thailand   2019
- Representative from Faculty of Medicine and Public Health in a field study at Hospital & Public Health Company in Hangzhou and Shanghai, China   2019

CERTIFICATES

- Super AI Engineer Season 3 Examination Certificated by AIAT [credential]   Dec 2022
- Good Clinical Practice: ICH GCP E6(R2) for Investigator and Trial Staff by Chulabhorn Royal Academy [credential]   Sep 2022
- Perform Foundational Data, ML, and AI Tasks in Google Cloud [credential]   Apr 2022
- BigQuery for Machine Learning [credential]   Apr 2022

INTERESTS / HOBBIES

- Reading publications about technology and innovation
- Stock Investment, particularly in tech companies
- Attending technology conferences
- Enjoy exercising regularly, with a focus on weightlifting and calisthenics