Watin Promfiy

DATA SCIENCE

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PROFESSIONAL PROFILE

I am a data science student with a passion for artificial intelligence, machine learning, and deep learning. My expertise lies in incremental regression and tabular data analysis. I possess a proven ability to innovate beyond traditional methods and deliver cutting-edge solutions. I am seeking an opportunity to lead and conduct groundbreaking research, customize novel models, and implement incremental learning techniques to continuously adapt and improve with new data.

EDUCATION

B.Sc. Information Technology - Data Science and Business Analytics ***2023 - Present***

GPAX: 4.00

King Mongkut's Institute of Technology Ladkrabang

AI - Artificial Intelligence and Engineering ***2017 - 2023***

GPAX: 3.96

Assumption College Samutprakarn

EXPERIENCE

Data Science Internship at KBTG (K-LAB) - Apprentice Program ***16 July 2024 - Present***

- Predicted land prices using deep learning on satellite images and geospatial data.
- Integrated and optimized models in the AI/ML sandbox.
- Validated and optimized data pipelines.
- Collaborated to implement models in banking projects.

Lecturer at FutureXCoders Volunteer Teacher ***2022***

- Designed and delivered comprehensive lectures on basic Machine Learning.

CERTIFICATIONS & NATIONAL AWARDS

1st Runner Up: Innovation for Crime Combating Contest - I4C ***2023*** ***DSI, NECTEC***

- Developed a deepfake detection system using a CNN ensemble model.
- This system effectively identified and flagged deepfake videos, enhancing crime detection and response efficiency.

Top 10 Team: CHOICE IS YOURS ***2023*** ***(SCG, Microsoft, Central Group, BMW Group)***

- Created an AI-driven platform for underwater waste detection to aid in ocean conservation.
- Implemented YOLO object detection framework for precise and efficient detection of underwater waste, leveraging computer vision and deep learning techniques.

Honorable Mention: Metaverse for Smart Factory Contest ***2022*** ***FIBO - KMUTT***

- Developed an AI solution for factory operations in the Metaverse era.
- The project involved creating a virtual reality model for smart factories, which improved operational efficiency and worker training through immersive simulations and AI-driven process optimization.

Top 6 Team: ICT Challenge ***2022*** ***SIT - KMUTT***

- The project develops an image captioning solution for the blind using transformers and attention mechanisms to generate accurate, descriptive captions, enhancing accessibility.

Top 15 Team: JUMP THAILAND Hackathon ***2024*** ***AIS, MSDHS***

- The project develops an image captioning solution for the blind using transformers and attention mechanisms to generate accurate, descriptive captions, enhancing accessibility.

Top 12 Team: Krungsri UniVerse X KMITL Hackathon ***2024*** ***Krungsri UniVerse, KMITL***

SUPERAI ENGINEER (SEASON 4) - ACTIVITY SUMMARY

Experienced Machine Learning Engineer proficient in Python, with expertise in various ML models (GBM, SVM, KNN, ANN, Transformers). Strong skills in data structures, algorithms, and statistical methods. Actively participates in hackathons and competitions, contributing to innovative solutions and supporting team efforts in research, modeling, and idea pitching. Demonstrates continuous skill development and collaborative problem-solving in machine learning and data science.

KEY PROJECTS:

- Credit Risk Modeling (Home Credit): Created a classification model to assess customer creditworthiness, leveraging LLMs and advanced ML techniques like GBM and ANN.
- Legal Act Classification: Implemented multilingual models and TF-IDF for document verification, enhancing model performance with SVM, decision trees, and CatBoost.

PROJECTS

Model for Pneumonia Detection: Developed an add-on for diagnosing pneumonia by analyzing X-ray images of the lungs. The model used convolutional neural networks (CNNs) to enhance accuracy and speed in detection, reducing misdiagnosis risks.

Automail Robot Arm: Developed an arm mimicking user hand movements for a camera-based hand movement detection system. Leveraging OpenCV and machine learning, the system minimized the risk of accidents by accurately replicating human gestures.