

# Pawarit Thareechan

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Data Scientist | Machine Learning Engineer

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## EXPERIENCE

### Avalant Co. Ltd.

Apr 2023 – Present

*Data Scientist*

2 years 2 months

- Built RAG chatbot system handling HR queries and government budget allocation predictions, integrating email automation and ML-powered budget ratio forecasting for Thai government projects.
- Developed real-time HR performance analytics pipeline tracking project completion times, predicting task duration, and detecting anomalies in employee patterns (leave abuse, low productivity) with live dashboard for HR teams.
- Technologies: Python, Dify, Milvus, Apache Spark, Apache Airflow, Apache Iceberg, Min.io, Apache Superset

### Looloo Technology

Aug 2021 – Mar 2023

*Machine Learning Engineer*

1 year 7 months

- Developed car auction pricing model achieving 11-26% price accuracy using brand, model, year, and color features, solving data imbalance by applying same-brand price function methodology.
- Built multi-stage image authentication pipeline: QR code validation, Moiré pattern detection for screen capture rejection, and EfficientNet classification to verify legitimate cardboard-based submissions.
- Technologies: PyTorch, EfficientNet, scikit-learn, matplotlib, OpenCV

### iCONEXT Co., Ltd.

Apr 2018 – Jul 2018

*Software Engineer Intern*

3 months

- Built Line chatbot to automate meeting room booking, eliminating manual G Suite processes and improving user adoption through familiar messaging interface.
- Developed automated sales reporting system for metal company, reducing manual data entry and ensuring real-time database synchronization.
- Technologies: C#, PostgreSQL, Line Chat Bot API

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## KEY ACHIEVEMENTS

### Health Data Science Hackathon by BDMS – Winner, THB 10,000 prize

2021

Won 24-hour hackathon with 3-person team, built healthcare prediction model and visualized insights to support diagnosis and resource planning

### Teaching Assistant – Computer Engineering

2021

Assisted in undergraduate courses: Data Structures and Algorithms, Machine Learning, Introduction to Design and Analysis of Algorithms

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## EDUCATION

### Bachelor of Engineering in Computer Engineering

Aug 2015 – Apr 2019

*King Mongkut's University of Technology North Bangkok (KMUTNB)*

3 years 8 months

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## TECHNICAL SKILLS

<b>Programming:</b>	Python, SQL, JavaScript, Shell
<b>ML/AI:</b>	PyTorch, TensorFlow, scikit-learn, NLP, Computer Vision, Deep Learning
<b>Data Engineering:</b>	Apache Spark, Airflow, ETL/ELT, Data Pipelines, Real-time Processing
<b>Cloud/Tools:</b>	Docker, Git, CI/CD, Vector Databases (Milvus), Apache Superset
<b>Visualization:</b>	Dashboard Development, Business Intelligence, Data Visualization

PERSONAL PROJECTS

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**Discord Anti-Spam Bot – Behavioral Analysis System**

2024 – Present

Developed ML-powered bot protecting 6,000+ users (500-1,000 active weekly) with 100% accuracy over 1+ year, using behavioral pattern analysis to distinguish scammers from legitimate users without false positives

ADDITIONAL PROJECTS & ACTIVITIES

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**Senior Project – ML Model Evaluation: AUC vs Accuracy Performance Study**

2019

Researched optimal feature selection methods and compared AUC vs accuracy metrics, demonstrating AUC's superior ability to distinguish model quality despite complexity trade-offs

**Cyber Security Challenge by KPMG – 12th place (Top 60%)**

2018

Competed in 4-person team during one-day hackathon solving real-world cybersecurity scenarios among 20 teams