

Pathavee Siripathavanich

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Analytical Business Analyst & Product Strategist with a solid background in Computer Engineering. Leverages technical expertise to solve real-world business problems through award-winning projects. Specialties include IT Business Analysis, Operational Process Optimization and Data-Driven Decision Making.

EDUCATION

Chulalongkorn University

Bachelor of Engineering, Major. Computer Engineering and Digital Technology

Bangkok, Thailand

Aug 2025 – Present

WORK EXPERIENCE

National Electronics and Computer Technology Center (NECTEC)

AI Developer, Strategic Analytics Networks with Machine Learning and AI (SAI)

Pathum Thani, Thailand

Jul 2024 – Aug 2024

- Collaborated with R&D to implement an AI inspection system, modernizing the QC workflow.
- Optimized AI pipeline to reduce latency by ~90%, enabling real-time processing while improving accuracy.

RESEARCH

IEEE Publication

Co-Author & Researcher

Bangkok, Thailand

Jul 2024 – Feb 2025

- Published paper: The Impact of Prompt Engineering on Large Language Models (iSAI-NLP 2024)
- Evaluated state-of-the-art LLMs (including GPT-4.0) for SDG classification, validating Few-Shot prompting as the optimal configuration based on F1-Score and BERTScore benchmarks.
- Organized complex technical benchmarks into a structured manuscript, adhering to academic guidelines.

PRODUCT STRATEGY & COMPETITIONS

AI Thailand Hackathon 2024 | **Product Team Lead**

Jun 2024

- Led the product presentation, effectively communicating how the AI-driven Remote Valuation tool solves the bottleneck of on-site inspections for appraisers.
- Conducted a comparative analysis of the proposed solution versus traditional on-site methods, projecting a ~70% reduction in operational turnaround time and associated costs.
- Awarded Honorable Mention & AI Engineer Reward.

Young Scientist Competition (YSC) | **Product Owner**

Jul 2024 - Feb 2025

- Managed the end-to-end product lifecycle of a Parkinson's detection tool, from initiating the project scope to delivering the final presentation.
- Analyzed existing QC workflows to identify bottlenecks, implementing a solution that reduced processing latency by 90% and enabled real-time decision making.
- Awarded the Regional First Award and National Honorable Mention.

Vision-Language Model for Smart Manufacturing Hackathon | **Team Leader**

Nov 2025

- Conducted an in-depth interview with a factory stakeholder to pinpoint critical operational bottlenecks and validate pain points.
- Analyzed manufacturing workflows and proposed a solution projected to reduce QC defects by 40%, with an estimated break-even point of 14 months.

ADDITIONAL INFORMATION

- **Product Team | Open Parliament Hackathon 2024:** Designed AI fraud detection for procurement; Top 3 Finalist (Open Procurement Track).
- **Data Team | NASA Space Apps 2024:** Analyzed complex datasets for predictive modeling; Champion Thailand Local Reader Reward.
- **Team Leader | CEDT Hackathon:** Led business strategy for a premium food rescue platform; Final 6 Teams.
- Super AI Engineer Season 4 – Super AI Developer, AIAT.
- Volunteered to teach Maths, C and C++ program for Saengthong Vitthaya student.
- **Language:** Thai (native), English (fluent)
- **Tools & Skills:** Figma, Github, Microsoft Office, Notion, C, C++, Python, HTML, CSS, Javascript
- **Interests:** Running (Avg. Pace 6:30 5km, Goal: <6:00), Basketball(1st runner-up intania game), Financial/Tech/Business Podcasts, Shark Tank Analysis.