

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

Bangkok, Thailand

Aug 2025 – Present

Bachelor of Engineering, Major. Computer Engineering and Digital Technology

WORK EXPERIENCE

National Electronics and Computer Technology Center (NECTEC)

Pathum Thani, Thailand

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

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

Bangkok, Thailand

Co-Author & Researcher

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.