

# Watchara Noisriphan

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[Linkedin](#)

## CAREER OBJECTIVE

My passion lies in AI engineering and conducting proof-of-concept (POC) projects to demonstrate their feasibility. I enjoy working with data, particularly with Language Models (LLMs), and developing my own models. I believe this field holds significant potential for societal impact in the future.

## EDUCATION SUMMARY

<b>Kasetsart University</b> Bachelor of Science   GPA 3.74 (First-Class Honors) Major : Computer Science	<i>Bangkok, Thailand</i> <i>Apr 2019 - Apr 2023</i>
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## WORK EXPERIENCE

<b>Amity Solutions co. ltd</b> - AI software <b>Data Analyst &amp; Prompt Engineering</b> <ul style="list-style-type: none"><li><b>Prompt Engineering</b> for ChatGPT: Developed techniques to guide ChatGPT responses through <b>Retrieval-Augmented Generation (RAG)</b> with CSV files, ensuring responses align with specific requirements.</li><li>AI-Powered Career Path Chatbot: Implemented an <b>AI chatbot</b> focused on career development, assisting employees in understanding growth pathways and self-improvement strategies.</li><li>API Development &amp; Testing: <b>Built APIs using TypeScript</b> and tested functionalities with <b>Google Apps Script</b>, ensuring reliable and efficient API operations.</li></ul>	<i>Bangkok, Thailand</i> <i>Oct 2024 - Present</i>
<b>Unit co. ltd</b> - software house and infrastructure support PTG , <b>PTG startup</b> <b>Data Analyst &amp; AI Researcher</b> <ul style="list-style-type: none"><li>Implemented <b>message queues (SQS)</b> to prevent data loss during operations, reducing transaction loss. Despite system downtimes, processes continued to completion. Researched <b>Apache Kafka for larger-scale systems</b>, solving issues and <b>preventing financial losses exceeding 1 million THB</b>.</li><li>Developed a POC for <b>social listening</b> by using <b>Gemini 1.5 flash</b> to analyze video content, determining the message and activities in the video, and identifying current interests. This analysis was applied to create modern campaign topics, resulting in <b>improved engagement rates</b>.</li><li>Created a cache system using the <b>lru_cache</b> library to avoid redundant data queries. To enhance performance at the enterprise level, conducted a POC with Redis on Docker. This significantly reduced the frequency of redundant backend queries, <b>decreasing CPU server usage by up to 90%</b>.</li></ul>	<i>Bangkok, Thailand</i> <i>May 2024 - Oct 2024</i>
<b>Rudy Technology co. ltd</b> - ERP , CRM In the construction business , <b>SCG startup</b> <b>Data Analyst &amp; AI Researcher</b> <ul style="list-style-type: none"><li>Implemented <b>sentiment analysis</b> using the <b>WangchanBERTa Thai language model (LLM)</b>, <b>fine-tuning</b> responses based on customer requirements, and categorizing them into positive, neutral, and negative sentiments. Utilized data relevant to business to conduct fine-tuning and designed multiple models as organizational assets.</li><li>I utilized a Language Model (LLM) for Retrieval-Augmented Generation (<b>RAG</b>), enabling an <b>AI chatbot</b> to respond with specific information extracted from various sources such as <b>SQL, Excel, and PDF formats</b>. This chatbot was designed to read <b>organizational data</b>, summarize it, and provide tailored responses to users' inquiries.</li></ul>	<i>Bangkok, Thailand</i> <i>Jul 2023 - May 2024</i>
<b>Tamkang University</b> - University in Taiwan <b>AI Developer R&amp;D (Internship)</b> <ul style="list-style-type: none"><li>Conduct research to identify compelling AI projects that are suitable for addressing the encountered problems and analyze how they can <b>provide solutions</b>. The specific problem at hand is to assemble the <b>most effective rowing team</b>.</li><li>Utilize <b>Python's media pipe library</b> to capture video data of each rower's practice sessions and calculate the <b>angle and degree</b> of their <b>rowing technique</b>.</li><li>Apply principles of physics to determine the angular velocity of each rower in every video clip.</li><li>Employ the <b>Fast Fourier Transform principle</b> to identify the rowing frequency of the athletes.</li><li>Employ various machine learning models such as <b>K-Means, BIRCH, and DBSCAN</b> to cluster all the data, and compare the predictions made by the three models.</li></ul>	<i>New Taipei City, Taiwan</i> <i>Jul 2022 - Dec 2022</i>

**PTT P-Dictor - Predictive maintenance of machines**  
**Data scientist (Internship)**

*Bangkok, Thailand*  
*Apr 2022 - Jun 2022*

- Analyze machine sensor data by retrieving API data from IBM cloud storage and plotting it using Python seaborn library to observe the **behavior of the machine prior to crashing**.
- Gather machine behavior data from the five years leading up to the crash, train the data using **machine learning models** such as **linear regression and XGB**, and compare it with the current data.
- Perform an **autopipeline** by obtaining sensor data from the machine through an **API ,ETL, cleaning** the data before model training, and saving the results. All of these processes are conducted within the IBM cloud environment.

**L.P.N.Development PCL. - Selling, renting and servicing real estate**  
**Data Analyst (Internship)**

*Bangkok, Thailand*  
*Apr 2021 - Jun 2021*

- Retrieve data from company databases using **SQL** and utilize **Microsoft's SSAS framework** for data retrieval from multiple databases. Synchronize data from the database to display it on the **PowerBI dashboard**.
- Create a dashboard that showcases the participants **involved in the sale of houses, condos, and row houses** in the Lumpini project.
- Utilize **OCR techniques to extract text** from an image of a package list, convert it into digital text, and automate the process of filling in the required information.

## SKILLS

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- Programming Languages: SQL, Python (pandas, scikit-learn, numpy, matplotlib, beautiful soup, open-cv, auto gui) , NLP, Computer Vision
- Containerization: Docker , GitHub , Redis , Message Queue (SNS), Apache Kafka
- LLM: OpenAI , Langchain , Llama , Gemini , Huggingface
- Data Visualization: PowerBI, Tableau, Looker Studio

## ACTIVITY & REWARD

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- 2nd Place and Best of the Track Award in "Data Solution for Banks" at the National ITMX Hack to the Max
- 2nd Place in the Google Cloud Ace Hackathon Competition
- Top 16 Finalist in the Line Hackathon 2023 (Student Team)
- Microsoft Future Ready Project Participant, Thailand Representative
- 1st Data Culture Leadership Bootcamp 2022

## COURSE & CERTIFICATE

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- FRA - Competition 2020 (Microsoft)
- SUPER AI ENGINEER SS1 (AIAT)
- AI on Cloud (SCB)
- AI Chatbot Essential (Botnoi)
- Applying Machine Learning to your Data with Google Cloud
- Google Cloud Computing Foundations: Data, ML, and AI in Google Cloud
- Generative AI Explorer - Vertex AI