Al and Digital Transformation Experiences

2024 - Present Assistant Director, Data Analytics Division,
Data Management and Data Analytics Department
Bank of Thailand

Lead the Generative AI development. Manage Data Scientists. Promote data-driven organization. Steering technology direction.

- LLM for Supervision: Chat and analytic report generation from FI BoD minutes (SupAI). Chat with announcements and regulations (PolicyGPT). Virtual assistant RAG chatbot to streamline and enhance supervisory tasks (BOTGPT).
- RDT Co-Pilot: Analytics multi-agent for generating SQL from multi-database schema to extract data from data lake, fields discovery and turn supervision question into analytic tasks.
- Data Analytics and Development: Oversee the analytics and transition to RDT data for supervision and policy making and equip financial supervisor and analyst with technical skills.
- Al Strategy: Develop Al adoption and implementation plan across the bank. Draft Al Policy and Guideline. Provide consult for Al collaboration in the financial industry.
- MLOps: Lead the acquisition of centralized analytic platform with GPU and on-premise Al Infrastructure for internal data.

2022 - 2023 Data Analytics and
Business Intelligence Director
TQM Insurance Broker PLC.

Drive the organization transformation from a traditional broker to InsureTech with technology adaptation, utilizing agile project management, and harmonizing both individual contributions and team building.

- Developed tech integration, combining speech recognition and accelerated analytics with GPUs to enhance efficiency.
- Appointed as DPO and implemented robust data protection measures and compliance frameworks, maintaining data integrity and privacy while meeting regulatory requirements.
- Orchestrated scalable data architectures, near real-time data lakes, and high-performance data warehouses to accelerate data analysis and decision-making using Python/SQL for in-house business intelligence.
- Led legacy system transformation with automation and selfservice analytics, empowering sales and marketing teams with real-time insights for informed decision-making.
- Managed complex stakeholder relationships across various functions and developed strong external partnerships and enhance cross-function collaboration and team building.

2020 - 2022 Data Analytics and
Business Intelligence Manager
TQM Insurance Broker PLC.

Founded a Data Analytics team and manage data scientists, data engineers and data analysts under Digital Transformation Department. Organize and clean prospect customer data to comply with PDPA.

- Develop skills and tools for the Data Team and promote data-driven cultural in the organization.
- Set up and optimize big data infrastructure for Bigdata analytics tools for rapid implementation.
- Lead Analytics for cross sell / upsell and provide insight to business management with data driven decision.
- Pioneered API-driven innovations, creating a flight delay notification system and online claim as a value-added service for travel insurance customers.

2020 Data Scientist
SCG Packaging PLC.

Developed machine learning models for manufacturing and business applications and promoting data literacy within the organization.

- Predicting bearing fault type using machine learning and vibration spectrum analysis.
- Optimizing wood pricing strategy with deep learning and web application visualization.
- Identifying optimal locations for purchasing raw materials based on historical data and supply curves.
- Hosting data visualization competitions to drive datadriven decision-making across the organization.

2019 - 2020 Data Scientist
Central JD Fintech Co., Ltd.

Predicting behavior of e-wallet application users using deep learning and segmentation. Identify preferred business unit for customer engagement and targeting.

- Predicting preferred business units for individual consumers, aiming to maximize customer engagement and effectiveness in promotion targeting.
- Forecasting the propensity of wallet users to invite friends, with the goal of developing an efficient user acquisition strategy.

Sales and IT Director 2008 - 2017

Proton International Co., Ltd.

ExxonMobil Lube Distributor / Family Business

Focusing on strengthening 20+ sales reps and expanding our business into a service provider role. Strategizing the financial cash flow for optimized inventory and supply chain management. Managing and designing company-wide IT infra and software.

- Developing sales strategies to meet yearly targets and managing contract renewals with principals.
- Acquiring new customers through sales pipelines/CRM.
- Designing market penetration strategies for individual customers, with tactical price support for their benefit and weekly market insight analysis.
- Sourcing rare products from overseas to meet customer demand and prevent competitor's entrance.
- Collaborating with financial institutions for operating capital.

Technology Stacks

Generative AI: LLM / GPT / Ilama / Iangchain / Ilamaindex / VectorDB / HF

Data Science: Py Torch / Tensor Flow / AutoML / sk-learn / Pandas / NLP

Data Eng: Spark / Cloudera / Airflow / Prefect / Docker / k8s / Shell / Linux

Database: SQL / Oracle / Postgres / Big Query / NoSQL / MongoDB / Redis

Cloud Computing: AWS / AZURE / GCP / Serverless Architecture

Parallel Computing: Dask / Multi-Processing / RAPIDS / CUDA

BI and Visual Analytics: Tableau / Power BI / Plotly / Dash / Open Sourced BI

Web App Dev: Python / JavaScript / Tailwind / Flowbite / API / DevOps / Self-host

Professional Licenses

2008 CISA I.

Certified Investment and Securities Analyst

The Securities and Exchange Commission, Thailand

Single License 2008 - 2010

The Securities and Exchange Commission, Thailand

Education

2018 - 2019	MSc Data Science (Merit)
	Dissertation: Stock Prediction from ESG data of FTSE100
	City University of Lendon

City University of London

2009 - 2014 PhD Economics

Good Dissertation Award

Thammasat University

BA Economics 2004 - 2008

Outstanding Academic Paper by Student

Chulalongkorn University

Academic Experiences

Economist 2008 - 2022

Dokbia Radio FM 97.0

Weekly speaker on radio for world economics and stock market news and analysis. Analyze world financial update including, US Election and US stimulus package and Fed QE, with a special focus on tech stock and cryptocurrency.

Economics Lecturer 2017 - 2018

Assumption University

2019

2014

Teach undergraduate macro and microeconomics. Program Faculty Member. Advice students on career and academic development.

Research Experiences

MSc Data Science Dissertation

"Parallelized Micro Machine Learning Models for Stock Returns and ESG Rating Prediction"

"Stock Market Prediction using Machine Learning Model"	
kaggle.com/c/two-sigma-financial-news	2019

"Consumer Imperfect Information and Firm Agglomeration"

The 8th Conference on Economics for Graduate Students Chiangmai University

Ph.D. Student Academic Co-Workshop 2013 Chulalongkorn University

"Can Government Vocational Training Program Improve Economics Welfare and Growth" (with Manachaya Uruyos)

The 5th National Conference of Economists 2009 Thailand The 4th National Conference of Economists 2008

Thailand The 9th International Conference of the Association for Public Economic Theory

Korea

Publication

Wangveerathananon, T. (2014) "Imperfect Consumer Information and Firm Agglomeration", Thammasat Economics Journal.

Awards

Top Ten UK National Finalist worldquantvrc.com/en/cms/wqc/iqc/	2019
Top 15% (410 th of 2927)	2019
kaggle.com/c/two-sigma-financial-news	
Best Dissertation Award (2nd Prize)	2014
Research Grant for Dissertation,	
Thammasat University Research Scholar	
Bank of Thailand Scholarship	2009
for Thammasat Graduate Student	
Top Five MAI Star Researcher	2006
The Stock Exchange of Thailand	