

PANUWAT SUANJAN

STATISTICAL DATA SCIENCE AND ANALYTICS
KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK

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SUMMARY

Innovative AI & Machine Learning Engineer with a solid foundation in Statistical Data Science and practical expertise spanning machine learning deployment, 3D vector databases, and scalable backend APIs (Firebase, Python). Proven track record in developing production- grade computer vision models, geospatial ETL pipelines (PostGIS), and end-to-end workflow automations (n8n, RPA). Skilled in the full data lifecycle—from Big Data processing (Apache Spark) and workflow orchestration (Apache Airflow) to executive BI dashboards (Power BI, Superset, Looker Studio). A fast learner who continuously adapts to emerging technologies, committed to combining technical rigor with robust software architecture to deliver impactful, data-driven business solutions.

EDUCATION

Bachelor of Science Program in Statistical Data Science and Analytics

King Mongkut's University of Technology North Bangkok

GPAX: 3.31
2021 - 2024

Mathematics and Computers Program

Tepleela School

GPAX: 3.53
2015 - 2020

SKILL

Hard Skill

Python	Superset
Pyspark	Excel
N8N	Power Automate
Postgresql	Power BI
SQL	Power Query
SSMS	Looker Studio
MongoDB	Machine Learning
Airflow	Scikit-Learn
Pandas	Deep Learning
Ray	LLM
FastAPI	Firebase
RAG	Vector
VLM	Computer Vision
Vector Embeddings	

Soft Skill

Emotional Intelligence
Adaptability
Problem-solving
Innovation
Teamwork
Work ethic
Communication

EXPERIENCE

AI Engineer – CUBIC X Company Limited | 01/2026 - 08/2026

Intelligent Document Processing (IDP) & Visual AI

Designed and developed a computer vision and document digitization system using Python and Google Gemini models to extract structured digital data from physical documents with approximately 90% accuracy, reducing manual paperwork by 80%.

End-to-End Workflow Automation & System Integration

Designed and deployed end-to-end workflow automations using n8n, streamlining document processing, order management, machine anomaly detection, and production-to-delivery tracking.

LLMOps, Model Benchmarking & Cost Optimization

Developed scalable APIs and backend microservices integrated with Firebase, providing reliable database access and customized business logic across internal teams.

Vector Space Modeling & High-Dimensional Feature Representation

Developed a multidimensional vector-space representation for digital twin objects, enabling similarity comparison, differentiation, and analysis across multiple object attributes.

Real-Time Data Infrastructure for AI & Digital Twins

Designed a real-time database architecture for storing and managing heterogeneous data types, models, and formats, supporting AI-driven and digital twin applications.

Automated Event-Driven Alerting & Chatbot Integration

Integrated the LINE messaging platform with automated workflows to deliver real-time alerts, notifications, and operational reports to teams, improving visibility and enabling faster response to business events.

Data Scientist – Universal rice co. ltd | 05/2025 - 12/2025

Rice Seed Classification API using Deep Learning

Developed and deployed a Python-based deep learning model and REST API to classify and visualize different rice seed varieties from image inputs.

End-to-End Geospatial Data Pipeline & Location Intelligence Dashboard

Built an end-to-end geospatial intelligence solution by engineering an automated ETL pipeline (PostgreSQL/PostGIS) to integrate land plot data, powering interactive executive dashboards to identify optimal trading areas and product sourcing.

Internship Projects – OfficeMate | Central Retail Group | 05/2024 - 10/2024

Transfer Postgresql to SQL Server with Apache Airflow

Designed a data migration flow to transfer data from a PostgreSQL database to a SQL Server database using Python programming.

Smart SO Confirmation with RPA Bots

A project to solve the issue for company employees who need to manually click 'Confirm Orders' for each purchase on the company's website. The solution involves writing Python code to automate the 'Confirm Orders' process.

Other Projects

Big Data Processing and Analysis using Apache Spark

Take New York Taxi data, perform a query using PySpark, and then use the resulting data to create visualizations through Power BI for presentation.

Awards & Achievements

Honorable Mention, ICIT DATA Analytics 2025

Awarded for outstanding performance in data analytics problem-solving competition.