SAUNG HNIN PHYU

First-Year Master's Student in Modeling, Data, and Predictions | Junior Data Scientist

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Summary

As a graduate student in Modeling, Data, and Predictions at the University of Alberta, I focus on statistical modeling, machine learning, and computational methods. I hold a First-Class Honors degree in Robotics and AI Engineering, with a strong background in algorithms, artificial intelligence, and data science. I've worked on projects like sentiment analysis, topic modeling, and machine translation using Python, SQL, Hugging Face, and Polars. I'm always eager to learn new tools and techniques, and appreciate clear communication and teamwork throughout a project.

Experience

Junior Data Scientist
Listening247

London, United Kingdom
07/2024 - 05/2025

- Designed and evaluated transformer-based NLP models for sentiment analysis, topic extraction, and social influence detection using Python, Transformers and Hugging Face.
- Processed large-scale text datasets with Polars, Pandas, and manual validation to ensure high-quality input and reproducible workflows in Jupyter Notebooks.
- Applied data visualization to improve model performance, enhance interpretability, and communicate insights across teams.

Machine Learning Engineer Intern
Vast Hive

Torshavn, Faroe Islands, Denmark
05/2024 - 10/2024

- Developed and optimized NLP Models by utilizing frameworks such as TensorFlow, PyTorch,
- Preprocessed and analyzed large text datasets to ensure high-quality input for model training,
- Train parallel data for machine translation

Teaching Assistant
King Mongkut's Institute of Technology, Ladkrabang

Bangkok, Thailand
07/2023 - 04/2024

- Guided students through practical projects involving programming languages,
- Evaluated student projects and provided feedback to help improve their design and implementation skills

Game Developer and Researcher Intern
Tokai University

Tokyo, Japan
05/2023 - 07/2023

- Acquired proficiency in C# and Unity through structured learning and hands-on practice
- Designed and developed a game using C# and Unity
- Received Student Exchange Partial Scholarship (May 2023)

Education

University of Alberta
Master of Science (Modeling, Data and Predictions)

Edmonton, Canada
09/2025 - 12/2026

- Advisor: Professor Dr. Linglong Kong

King Mongkut's Institute of Technology Ladkrabang
Bachelor of Engineering (Robotics and Artificial Intelligence Engineering)

Bangkok, Thailand
08/2021 - 04/2025

- Advisor - Dr. Sarucha Yanyong
- First Class Honors Degree - GPA: 3.75/4
- Academic Excellence Scholarship (Full Tuition Fees Wavier) (Aug 2022)
- Tuition Fees Wavier for Freshers (20%) (Aug 2021)

Languages

Burmese Native   English Proficient   Japanese Intermediate

Projects

Modeling Nurse Staffing and Costs Using Alberta Pandemic Hospitalization Data

Project Supervisor: Dr. Marie (Betsy) Varughese

- Performed data cleaning and analysis of Alberta COVID-19 hospitalization and serology data to define epidemic wave periods for modeling.
- Completed the full cost analysis for nurse staffing strategies, including overtime, redeployment, and weekly expenditure calculations.
- Contributed to model development by reviewing and refining the workforce compartment diagram to ensure operational and epidemiological consistency.

Smart Inventory System with AI-powered Line Chatbot

Project Supervisor: Dr. Sarucha Yanyong

- Developed an AI-powered LINE chatbot (RAIOne) using Python and Ollama, integrated with LINE Messaging API for real-time inventory queries.
- Implemented secure JWT-based authentication to manage user access.
- Collaborated in building a full-stack inventory management system for robotics lab operations.

Danish to English Translation Model

Project Supervisor: Miss Phyu Thwe Htet Htet Khaing

- Developed and optimized a neural machine translation (NMT) model for Danish–English translation using TensorFlow and PyTorch.
- Preprocessed and analyzed large parallel text datasets to ensure high-quality input for model training.
- Trained and evaluated the translation model to improve translation accuracy and model efficiency.

Myanmar Trip Advisory Chatbot

Project Supervisor: Dr. Beeying Sae-ang

- Developed a Dialogflow-based chatbot integrated with Facebook Messenger for personalized travel recommendations.
- Designed pop-up features to capture user preferences and enhance interactivity.
- Added image-based responses to improve engagement and user experience.

Credit Card Fraud Detection

- Built a Python-based ML model to identify fraudulent credit card transactions using a Kaggle dataset.
- Performed data preprocessing and feature engineering to improve model performance.
- Tested multiple classification algorithms to maximize accuracy and handle imbalanced data.

Skills

Core Tools: Python · SQL · Git

Data Science: Numpy · Seaborn · Data visualization · Prompt Engineering · Large Language Model (LLM)

Operating Systems & Productivity Tools: Linux · Ubuntu · Microsoft Office Suites

Soft Skills: Adaptability · Teamwork · Time Management · Leadership · Effective Communication

Certifications

Supervised Machine Learning: Regression and Classification - DeepLearning.AI on Coursera

Google Data Analytics Certificate (4 modules) - Grow with Google on Coursera

AWS Academy Cloud Foundations - Amazon Web Services

Data Science Orientation - IBM

International English Language Testing System (IELTS) - Overall Band 7

Japanese Language Proficiency Test (JLPT) -N5, N4