

Huang Lin, Ph.D.

Summary

Machine Learning Engineer with experience building end-to-end ML systems for large-scale, real-world data. Skilled in designing data pipelines, developing deep learning models, and optimizing system performance and efficiency. Proven track record of improving model accuracy and computational efficiency, with hands-on experience in PyTorch, TensorFlow, and LLM-based workflows.

Skills

Programming: Python, SQL, MATLAB

ML Frameworks: PyTorch, TensorFlow, scikit-learn

Core Skills: Machine Learning, Deep Learning, Data Pipelines, Feature Engineering, Model Training & Evaluation, Optimization, Time-Series Modeling, Signal Processing

Professional Experience

Mercor

San Francisco, CA

Machine Learning Engineer (Contract)

11/2025 – 05/2026

- Designed and implemented scalable Python-based pipelines for LLM-driven task execution, improving reproducibility and system efficiency across automated workflows
- Built evaluation frameworks for agent-based ML systems, enabling systematic performance benchmarking and failure analysis across diverse tasks
- Identified and resolved failure modes in LLM-generated workflows, improving task success rates and overall system reliability
- Collaborated cross-functionally to refine task design and improve robustness of ML pipelines in production-like environments

Ericsson

Montreal, QC

Machine Learning Engineer Intern

03/2021 – 04/2023

- Designed and implemented a scalable similarity-based filtering and matching pipeline for high-dimensional signal data, improving accuracy by 55% while significantly reducing candidate search space and computational cost
- Built data preprocessing and feature engineering pipelines for large-scale WiFi datasets using Python (NumPy, Pandas), enabling efficient model training and evaluation
- Developed and benchmarked machine learning and deep learning models (PyTorch, TensorFlow), evaluating performance across accuracy, latency, and generalization
- Optimized model robustness by analyzing noise patterns and missing data, improving system stability in real-world conditions
- Built evaluation and visualization tools to support model analysis, performance tracking, and technical reporting

China Telecom

Guangzhou, China

Sales Operations Analyst

07/2017 – 01/2021

- Analyzed large-scale customer and sales data to support operational decision-making and performance tracking
- Built SQL-based dashboards and automated KPI reporting workflows, improving data accessibility and reporting efficiency
- Performed statistical analyses to identify trends and support data-driven business decisions

Education

University of Regina

Regina, Canada

Ph.D. in Engineering

2026

South China Agricultural University

Guangzhou, China

B.Sc. in Electrical Engineering

2017