Katrina Louise Tan

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# Education

* M.S. in Data Science – Asian Institute of Management, 2021
* Thesis: Ensemble Learning for Rare Disease Prediction
* B.S. in Statistics – University of Santo Tomas, 2018

# Certifications

* IBM Data Science Professional Certificate (Coursera)
* Applied Machine Learning in Python (University of Michigan)
* AWS Certified Machine Learning – Specialty

# Skills

Python, R, scikit-learn, XGBoost, Time-Series Analysis, SQL, Statistics, Data Visualization, Machine Learning

# Experience

* **Data Scientist | HealthData Analytics | 2022–Present**
* Reduced hospital readmission rates by 15% by designing predictive models with scikit-learn and structured patient datasets.
* Achieved 85% AUROC with a risk scoring system that identified high-risk patients for early intervention.
* Decreased pipeline deployment time by 30% through the implementation of automated CI/CD workflows.
* **Machine Learning Analyst | RetailNext PH | 2020–2022**
* Increased ROI of marketing campaigns by 12% by clustering customers based on purchasing behavior.
* Improved demand forecasting accuracy by 20% by combining ARIMA and Prophet time-series models.
* Reduced ML training runtime by 35% by parallelizing workloads on GPU clusters.
* **Graduate Research Assistant | AIM | 2019–2020**
* Published a peer-reviewed paper on handling class imbalance in rare disease datasets.
* Built ensemble cancer detection models that achieved 92% recall on imbalanced samples.
* Improved reproducibility by standardizing Jupyter Notebook workflows and Dockerized environments.