

Darius Ardales

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EDUCATION

De La Salle University

*Bachelor of Science in Computer Science,
Major in Software Technology, Minor in Data Science*

Manila, Philippines

Aug. 2020 – Aug. 2025

EXPERIENCE

Data Science and AI Intern

Bank of the Philippine Islands (BPI)

May 2025 – Aug 2025

Makati, NCR, Philippines

- Presented weekly insights to the Head of Data Science, driving data-informed decisions for consumer banking
- Advised the Planning & Governance team on their operating model, leveraging AI agents to accelerate workflows

Freelance AI Writing Evaluator and Trainer

Outlier

Aug 2024 – May 2025

San Francisco, CA, USA

- Evaluated 80+ AI outputs weekly on diverse projects, consistently earning high-quality feedback ratings
- Ranked Senior Reviewer on some projects and inducted into Oracle, Outlier's top contributors group

Software Engineer Intern

Thinking Machines Data Science, Inc.

Jun 2024 – Aug 2024

Taguig, NCR, Philippines

- Led a project from design to presentation, taking full ownership of its development
- Enhanced office space utilization and projected 60% cost reduction with a web app alternative to HotDesk

RESEARCH & PUBLICATIONS

Investigating the Generalization of Transformer Models for Time Series

Forecasting in Sinusoidal Functions (Bachelor's Thesis)

DLSU Dr. Andrew L. Tan Data Science Institute (ALTDSI)

Aug 2025

- Marks a groundbreaking leap from rote pattern memorization to conceptual understanding of seasonality
- Empowers Transformers to generalize to unseen seasonal frequencies via novel embedding interventions

SentiMetry: A Development of Emotional Wellness Web Application Using AI-Driven Sentiment Analysis

Institute of Electrical and Electronics Engineers (IEEE)

Nov 2024

- Combined EmoRoBERTa, Logistic Regression, and Bi-LSTM to predict top-3 emotions across 28 categories
- Generated personalized LLM feedback using Mistral API, with 81% of users finding it empathetic

Towards a Memory-Efficient Filipino Sign Language Recognition Model for Low-Resource Devices

Computing Society of the Philippines (CSP)

May 2024

- Achieved 91% model-size reduction (11.7 MB to 1.0 MB) via post-quantization with only 3.5% accuracy drop
- Outperformed raw-frame CNN (25.5%) and LSTM (31.3%) by using MediaPipe landmarks

PROJECTS

Google Gen AI Intensive Course Capstone: Central Bank Compass AI

• Engineered a multi-agent Agentic RAG system to distill central bank communications into actionable insights

Mar 2025 – Apr 2025

SafetyCNN: a Simple CNN for Safety Classification

• Designed a CNN for classifying construction images as "safe" or "unsafe" using PyTorch and OpenCV

Nov 2024 – Dec 2024

Klima Insights

• Implemented an application illustrating the impacts of global warming in the Philippines using GeoPandas

Mar 2024 – Apr 2024

CERTIFICATES & AWARDS

Maya Big 3 Startup Showdown Winner

• Developed an AI workflow and predictive models for cashflow/credit analysis, automating loan decisions for MFIs

Apr 2025

Harvard Online: CS50's Introduction to Artificial Intelligence with Python

• Explored AI fundamentals from search algorithms to neural architectures (CNNs, RNNs, transformers)

Jun 2024

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, TypeScript

Frameworks: Google ADK, LangChain, PyTorch, scikit-learn, XGBoost, TensorFlow, Keras, OpenCV

Model Providers: Google Gemini, Hugging Face Transformers, OpenAI API, Mistral API

ML Ops: GCP, GitHub, Git, Vercel, W&B, Docker, Streamlit, Next.js, FastAPI

Data Management & Analysis: PostgreSQL, ChromaDB, Pandas, NumPy, Matplotlib

Developer Tools: Vertex AI Studio, Google AI Studio