# Darius Ardales

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## EDUCATION

**De La Salle University** — Manila, Philippines
*Bachelor of Science in Computer Science,* — *Aug. 2020 – Aug. 2025*
*Major in Software Technology, Minor in Data Science*

## EXPERIENCE

**Data Science and AI Intern** — May 2025 – Aug 2025
*Bank of the Philippine Islands (BPI)* — *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** — Aug 2024 – May 2025
*Outlier* — *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** — Jun 2024 – Aug 2024
*Thinking Machines Data Science, Inc.* — *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)** — Aug 2025
*DLSU Dr. Andrew L. Tan Data Science Institute (ALTDSI)*
- 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** — Nov 2024
*Institute of Electrical and Electronics Engineers (IEEE)*
- 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** — May 2024
*Computing Society of the Philippines (CSP)*
- 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** — Mar 2025 – Apr 2025
- Engineered a multi-agent Agentic RAG system to distill central bank communications into actionable insights

**SafetyCNN: a Simple CNN for Safety Classification** — Nov 2024 – Dec 2024
- Designed a CNN for classifying construction images as "safe" or "unsafe" using PyTorch and OpenCV

**Klima Insights** — Mar 2024 – Apr 2024
- Implemented an application illustrating the impacts of global warming in the Philippines using GeoPandas

## CERTIFICATES & AWARDS

**Maya Big 3 Startup Showdown Winner** — Apr 2025
- Developed an AI workflow and predictive models for cashflow/credit analysis, automating loan decisions for MFIs

**Harvard Online: CS50's Introduction to Artificial Intelligence with Python** — Jun 2024
- Explored AI fundamentals from search algorithms to neural architectures (CNNs, RNNs, transformers)

## 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, Azure, 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, Microsoft Copilot Studio