

Darius Ardales

☎ (+63)977-821-2047 | ✉ darius.vincent5@gmail.com | **in** [linkedin.com/in/riu-rd](https://www.linkedin.com/in/riu-rd) | 🌐 darius-ardales.web.app

EXPERIENCE

Data Science and AI Intern

May 2025 – Aug 2025

Bank of the Philippine Islands (BPI)

Makati, NCR, Philippines

- Deployed a prioritization model via Microsoft Copilot Studio, accelerating DS team's project selection by projected 40%
- Built a baseline audio-to-insights pipeline on GCP/Azure serving as foundation for unstructured audio data transformation
- Presented weekly model recommendations to the Head of Data Science, enabling strategic prioritization of model exploration

Freelance AI Writing Evaluator and Trainer

Aug 2024 – May 2025

Outlier

San Francisco, CA, USA

- Provided human feedback for Meta's RLHF pipeline, evaluating 80+ Meta AI outputs weekly to boost response accuracy
- Ranked Senior Reviewer and inducted into Oracle top contributors group for consistent annotation quality

Software Engineer Intern

Jun 2024 – Aug 2024

Thinking Machines Data Science, Inc.

Taguig, NCR, Philippines

- Led a project from design to presentation, managing stakeholders and delivering satisfied proposal outcomes
- Enhanced office space utilization and projected 60% cost reduction with a web app alternative to HotDesk

AWARDS

1st Place Winner, BPI DATA Wave 2025: Hyper-Personalization & Customer Experience Track

Sep 2025

- Architected a proactive solution projected to slash cost-per-case by 31% and double the customer NPS growth
- Engineered an agentic tool using Google ADK and A2A for automated issue resolution and pre-analyzed agent reporting

Winner, Maya Big 3 Startup Showdown

Apr 2025

- Developed an AI workflow and predictive models for cashflow/credit analysis with projected 100% loan decision speedup
- Designed and optimized complex SQL queries to extract critical data from our strategic partner's proprietary database

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)

- Achieved 87% lower MSE than Vanilla Transformer and outperformed Informer/Autoformer on unseen frequencies
- Developed Takens embedding and simplex projection methods, improving R^2 from -1.26 to 0.72 on varied distributions

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 6.25% accuracy drop
- Outperformed the accuracy of raw-frame CNN (by 74.51%) and LSTM (by 68.75%) by using MediaPipe landmarks

EDUCATION

De La Salle University

Manila, NCR, Philippines

B.S. in Computer Science, Major in Software Technology, Minor in Data Science

Jul 2020 – Aug 2025

PROJECTS

PageLeaper

Jun 2025 – Jul 2025

- Built a RAG system with Gemini embeddings processing 5+ PDFs/DOCX simultaneously with 20-chunk batch optimization

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

Towards a Safer Construction Environment: A Simple CNN for Safety Classification

Nov 2024 – Dec 2024

- Built an end-to-end safety classification pipeline with data augmentation (5x expansion), TTA, and FastAPI deployment

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

Apr 2024 – Jun 2024

- Gained robust theoretical and mathematical understanding of core AI algorithms from search to neural architectures

Klima Insights

Mar 2024 – Apr 2024

- Designed a dashboard for NGOs to monitor the impact of global warming in the Philippines using GeoPandas and Plotly

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, TypeScript

AI/ML: Google ADK, LangChain, Hugging Face, PyTorch, TensorFlow, scikit-learn, OpenCV

Data & Cloud: PostgreSQL, ChromaDB, Pandas, NumPy, GCP, AWS, Azure, Docker, W&B

Web & APIs: Next.js, FastAPI, Streamlit, Vercel, Gemini API, OpenAI API, Mistral API