

# Darius Ardales

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

## 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

### PageLeaper: Skip the reading, get the knowledge

• Built a RAG-powered document Q&A system using ChromaDB and Gemini for instant multi-document analysis

Jun 2025 – Jul 2025

### 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

### 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, Azure, GitHub, Git, Vercel, W&B, Docker, Streamlit, Next.js, FastAPI

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

**Developer Tools:** A2A, Vertex AI Studio, Google AI Studio, Microsoft Copilot Studio