

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

- Built an audio-to-insights pipeline on GCP/Azure, automating transcription, diarization, and analysis for consumer banking
- Deployed in production a prioritization model using Microsoft Copilot Studio to optimize the DS team's project selection
- Presented model recommendations weekly directly to the Head of Data Science, driving data-informed decisions

Freelance AI Writing Evaluator and Trainer

Outlier

Aug 2024 – May 2025

San Francisco, CA, USA

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

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

- 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

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

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

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

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

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

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