

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

AI Writing Evaluator and Trainer

Outlier

Aug 2024 – Apr 2025

San Francisco, CA, USA

- Engineered prompts to challenge AI models and refine their reasoning and response quality
- Ranked and evaluated AI responses for RLHF models, providing feedback to improve performance

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

Enhancing Transformer Models for Better Adaptation to Seasonal Shifts in Forecasting

DLSU Dr. Andrew L. Tan Data Science Institute

Ongoing

- Developed a simplex projection-inspired self-attention that outperformed state-of-the-art transformer models
- Ongoing bachelor's thesis with plans for further improvements to enhance adaptability to seasonal shifts

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

Institute of Electrical and Electronics Engineers

Nov 2024

- Combined EmoRoBERTa, Logistic Regression, and Bi-LSTM to predict top-3 emotions across 28 categories
- Generated personalized LLM feedback using Mistral, 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

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

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

Exploring Trends in Wholesale Goods Prices Per Region as Economic Indicators

Nov 2023 – Dec 2023

- Analyzed wholesale goods prices across regions in the Philippines using NumPy and Pandas

CERTIFICATES & AWARDS

Maya Big 3 Startup Showdown Winner

Apr 2025

DataCamp: Python Data Associate

Sep 2024

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

Jun 2024

DataCamp: Data Analyst with Python

Dec 2023

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL

Databases: PostgreSQL, MySQL, Firebase, MongoDB

Machine Learning: scikit-learn, PyTorch, TensorFlow, Keras, Hugging Face, Gemini

Data Science: NumPy, Pandas, Matplotlib, Seaborn

Web Development: React, Next.js, Tailwind, FastAPI

Developer Tools: GitHub, Git, Jira, Jupyter, GCP