Darius Ardales

☎ (+63)977-821-2047 | ✉ darius.vincent5@gmail.com | in 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

nth 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% (P39.60 to P27.38) and 2x 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 70% loan decision speedup

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 — *Aug 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

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