Darius Ardales

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EDUCATION

De La Salle University — Manila, Philippines
Bachelor of Science in Computer Science, — *Aug. 2020 – Aug. 2025*
Major in Software Technology, Minor in Data Science

EXPERIENCE

Student Researcher — Jan 2024 – Present
Dr. Andrew L. Tan Data Science Institute — *Taguig, NCR, Philippines*
- Explored transformer-based models and self-attention mechanisms
- Researched ways to enhance transformer efficiency
- Investigated methods to break memory bottlenecks while maintaining or improving accuracy

PROJECTS

Strategic Enhancement of Sephora's Recommendations — Jul 2024 – Aug 2024
- Developed recommender systems using content-based filtering, SVD, and logistic regression
- Achieved high-accuracy predictions for personalized product suggestions, improving customer experience

Klima Insights — Mar 2024 – Apr 2024
- Implemented an application illustrating the impacts of global warming in the Philippines using Plotly Dash
- Leveraged GeoPandas and Mapbox for interactive geospatial visualizations

Sentimetry — Feb 2024 – Mar 2024
- Built models for emotion classification using TensorFlow, Keras, and scikit-learn
- Utilized HuggingFace transformers and deployed the backend through FastAPI and HuggingFace Spaces

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
- Conducted trend analysis using scikit-learn to uncover significant patterns

Unveiling Urban Mobility Dynamics: Insights into Patterns and Trends of Divvy — Oct 2023 – Nov 2023
- Analyzed urban mobility patterns and conducted spatial trend analysis using scikit-learn

PAPERS

Towards a Memory-Efficient Filipino Sign Language Recognition for Low-Resource Devices
24th Philippine Computing Science Congress
- Developed a Filipino Sign Language recognition using TensorFlow and Keras
- Implemented gesture recognition with OpenCV and MediaPipe

CERTIFICATES

CS50's Introduction to Artificial Intelligence with Python — Jun 2024
Harvard Online
- Delved into optimization, constraint satisfaction, and foundational machine learning.
- Explored neural networks, including CNNs, RNNs, and transformers.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL
Databases: Firebase, MongoDB, MySQL, PostgreSQL
Data Science: NumPy, Pandas, Matplotlib, Seaborn, Plotly
Machine Learning: Tensorflow, Keras, scikit-learn, PyTorch, Hugging Face
Web Development: React, Next.js, Express, FastAPI
Developer Tools: GitHub, Git, Jira, Postman, Jupyter, Figma, GCP, Docker