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
- Investigated methods to break memory bottlenecks while maintaining or improving accuracy
- Researched ways to enhance transformer efficiency

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

Towards a Memory-Efficient FSL Recognition Model for Low-Resource Devices   Oct 2023 – Dec 2023
- Developed a Filipino Sign Language recognition model using TensorFlow and Keras
- Implemented gesture recognition with OpenCV, MediaPipe, and LSTM

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

CERTIFICATES

Python Data Associate   Sep 2024
DataCamp   *Expires: Sep 2026*
- Developed practical Python skills for effective data management and analysis.
- Proficiently addressed common analytical questions through real-world scenarios.
- Acquired hands-on experience with data manipulation and processing techniques.

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.

Data Analyst with Python   Dec 2023
DataCamp
- Delved into data cleaning, manipulation, and exploratory data analysis using Pandas and NumPy.
- Utilized Seaborn and Matplotlib for data visualization.

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, Hugging Face
Web Development: React, Next.js, Express, FastAPI
Developer Tools: GitHub, Git, Jira, Postman, Jupyter, Figma, GCP, Docker