Maria Monica Manlises

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Summary

Results-driven leader and research assistant with a keen interest in applying machine learning to data science and natural language processing. Pursuing opportunities to apply and enhance abilities in data science, machine learning, and NLP through meaningful internships to contribute to cutting-edge research and development.

Education

De La Salle University, Manila (DLSU-M)   Oct 2021 - present

Bachelor of Science (Honors) in Computer Science and Master of Science in Computer Science

- Consistent First Honors Deans Lister, CGPA: 3.969/4.0 (Summa Cum Laude Standing)
- Recipient of the Archer Achiever Scholarship Grant

Work & Research Experience

Foodpanda (Delivery Hero Philippines, Inc.)   Apr 2024 - June 2024

Data Analytics Intern – Logistics and Operations

- Conducted data extractions, cleaning, and visualizations using BigQuery and LookerStudio
- Automated a key operations tracker cutting weekly monitoring by 90% and reducing manual processing
- Provided data-driven insights for decision-making of the Logistics and Operations team and CEO office

DLSU Dr. Andrew L. Tan Data Science Institute (ALTDSI)   May 2023 - present

Research Assistant - A Prediction Model-based Decision Tool for Airline Fuel Consumption Management

- Performed exploratory data analysis and pre-processing on 70,000 flight data from a partner airline
- Designed coarse and fine prediction models resulting in acceptable RMSE values
- Designed and executed MySQL database models for 15 aircraft types across 4 levels of granularity

KonsultaMD   Oct 2022 - Jan 2023

Product Intern

- Produced graphs on 7,000 stores across the top 5 pharmacies in 13 regions toward competitor analysis
- Generated price comparison data points for 750 medicine products across 4 online pharmacies
- Designed customer journey maps and traits of 4 user personas toward UX research

Freelance   Sep 2022 - Dec 2023

Mathematics Tutor

- Taught algebraic concepts to high school students and synthesized 10 reviewers and session materials
- Fostered students' appreciation for mathematics while ensuring a 100% passing rate

Organizational Experience

DLSU Association for Computing Machinery Chapter   Sep 2022 - present

Chair, AY '23-'24 | Founding Vice Chair, AY '22-'23

- Supervised a team of 21 officers in the planning and execution of 20 applied computing activities
- Increased member engagement by 100% and member population by 60%
- Coordinated with international ACM Distinguished Speakers for seminars garnering 100 to 250 attendees

Peer Tutors Society   Nov 2021 - present

Executive Vice President, AY '23-'24 | Vice President for Internals, AY '22-'23

- Assisted the president in the management of 12 organization events and 4 committees
- Supervised website improvements to increase tutor-tutee matching rate from 94.61% to 98.51%
- Taught 11 peers on subjects in programming, artificial intelligence, and mathematics

Other Affiliations

- *Teaching Assistant* - Professor Widom's Instructional Odyssey @ DLSU Philippines 2024
- *Research Member* - DLSU Center for Language Technologies (CELT)
- *Student Member* - Association for Computing Machinery (ACM)
- *Member* - DLSU SPRINT (College of Computer Studies Honors Society)
- *Former Research and Academic Affairs Chairperson* - Computer Batch Government (CATCH2T25)

Projects

Transaction Management in a Distributed Database Management System

Designed and implemented a web application interfacing with a distributed database handling medical appointment data across 3 cloud servers. Implemented master-slave node configuration and replication strategies to ensure global concurrency control and crash recovery, with 100% successful testing outcomes.

Spam and Ham Detection

Conducted a meticulous comparative analysis of Multinomial Naive Bayes and Logistic Regression algorithms for spam vs ham message detection, achieving F1 scores of 96.84% and 96.67%, respectively.

Competitions

- *Most Popular Project Pitch* - Asian Undergraduate Symposium 2024 (National University of Singapore)
- *1st Runner Up* - P&G NEXT Leadership Camp 2024 | *ERD construction, data population, PowerBI analysis*
- *Top 25* - 2022 Shopee Ultimate Case Challenge | *ETA prediction improvement through machine learning*
- *Top 200 / 2400 participants* - 2022 Shopee Coding League
- *Champion, 1st Runner-Up* - DLSU Clash of the Brains Programming Competition, Quiz Bee

Skills

- C, C++, Python, Java, Go, SQL, Arduino, Prolog, HTML, CSS, Javascript, Verilog, x86-64
- Pandas, Scikit-learn, NLTK, PyTorch, TensorFlow, Keras, SciPy, Matplotlib, MERN, PERN
- BigQuery, LookerStudio, Figma, Canva, Adobe Creative Cloud, Notion, Jira, Microsoft Office, Google Suite
- English, Filipino, Chinese Fookien, and Chinese Mandarin