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

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 four 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 four 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% through marketing strategies
- Executed the Open Lab Day in coordination with 12 research labs, drawing over 300 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 four 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

La Salle Computer Society   Nov 2021 – Aug 2023
Project Head, Technology Summit 2023 | Associate Vice President for Academics
- Led a team of 60 members across 6 committees for a period of 8 months
- Coordinated with 6 guest speakers for major forums, talks, and workshops that garnered 300 viewers

Other Affiliations

- *Former NLP Engineer* – Sandbox
- *Co-Founder* – Modal AI Learning Bootcamp
- *Research Member* – DLSU Center for Language Technologies (CELT)
- *Student Member* – Association for Computing Machinery (ACM)
- *Member* – DLSU Society of Proactive Role Models Inspiring Total Development (SPRINT)
- *Former Research and Academic Affairs Chairperson* – Computer Batch Government (CATCH2T25)

Projects

Administrative Platform for an Early Childhood Education Training Program
As the Scrum Master, led a cross-functional team of nine through four consecutive two-week sprints, completing 100% of the Scrum points, facilitated by the effective utilization of Jira for sprint progress monitoring. Achieved 100% client satisfaction for the deployed website, aiding their initiatives towards accessible quality education.

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

- *1st Runner Up* – Procter & Gamble NEXT IT Leadership Excellence Camp 2024
- *Top 25* – 2022 Shopee Ultimate Case Challenge (UCC), addressing inaccurate ETA prediction
- *Top 200 / 2400 participants* – 2022 Shopee Coding League
- *Champion, 1st Runner-Up* – DLSU Clash of the Brains Programming, Quiz Bee Competition 2022

Skills

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