Roljohn Frilles

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Co-Curricular Experience

AWS CLOUD CLUB Skill Building - PUP MANILA   **Manila, Philippines**
ML/AI Co-Head   *2023 - 2024*
- Led a hands-on workshop introducing foundational Python concepts essential for AI and machine learning, covering key libraries such as NumPy, Matplotlib, and Pandas.

Education

POLYTECHNIC UNIVERSITY OF THE PHILIPPINES - MANILA   **Manila, Philippines**
Bachelor of Science in Computer Science   *October 2022 - Present*
- Consistent President's Lister.
- DOST-SEI Scholar: (2022 – Present)

NEW ERA UNIVERSITY   **Quezon City, Philippines**
Science, Technology, Engineering, Mathematics Strand   *2020 – 2022*
- With Academic Honors

Leadership & Activities

COLLABOTHON: IDEAJAM   **Manila, Philippines**
Co-Facilitator   *February 2024*
- Co-facilitated during the Collabothon: IdeaJam, guiding participants through brainstorming sessions and facilitating discussions on solutions using emerging technologies.

AMAZON WEB SERVICES (AWS) STUDENT COMMUNITY DAY 2024   **Manila, Philippines**
Technical Support Member   *April 2024*
- Contributed to the technical execution of the event, ensuring smooth facilitation of sessions and supporting the learning experience for attendees.

Skills

Technical Skills
- Programming Language: Python, HTML, CSS, JavaScript, Flutter
- Data Science: Matplotlib, NumPy, Pandas, PyTorch
- Machine Learning: Regression, Classification, and Neural Networks.
- Developer Tools: Gradio, Hugging Face, Arduino Uno (for hardware integration)

Certifications & Awards

Computer Vision: Deep Learning with PyTorch: Object Localization   **Coursera Project Network**
2023

Computer Vision: Deep Learning with PyTorch: Image Segmentation   **Coursera Project Network**
2023

Certificate of Appreciation: Collabothon: IdeaJam   **Department of Budget and Management**
Co-Facilitator
2023

AWS Cloud Club Skill Building   **Manila, Philippines**
ML/AI CO-HEAD
2024

Projects

CyberNix-12 Alphabot: Healthcare Companion for Isolated COVID-19 Patients   *2020*
- Led programming and hardware integration of a healthcare companion robot using Arduino Uno, integrating heart rate, oximeter, and temperature sensors to display vital signs and motivational messages via an LCD interface, and included medication reminders and a mobile UV sterilization cart.

YOLOv8 Object Detection Application   *2023*
- Developed an interactive machine learning application using Gradio and Hugging Face, leveraging YOLOv8 for precise object detection in uploaded images, providing visual feedback with bounding boxes and classification.

Smart Logistics Optimizer (Knapsack Algorithm)   *2024*
- Created a mobile logistics application that optimizes truck loading efficiency using the knapsack algorithm, intelligently determining optimal item combinations for pallet loading to maximize space utilization and profit margins.

Kuwartrack: Personal Finance Manager   *2025*
- Led a team in developing a comprehensive financial tracking mobile application with an intuitive Home dashboard for weekly expense categorization, a Transaction module for budget setting and expense tracking, and detailed Category Breakdown functionality.