Christian Elijah Darvin

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EDUCATION

De La Salle University - Dasmariñas   Cavite, Philippines
Bachelor of Science in Computer Science, Specialization in Intelligent Systems   *2022 – 2026*
GWA: 3.72

PROJECTS

ImuSafe | *Flutter, Python, JavaScript, Google Firebase, Git*
- Developing a computer vision-based mobile application for vehicular accident detection to improve emergency response in Imus, Cavite
- Training a **YOLOV11** model to detect vehicular accidents
- Creating a web dashboard for the Imus Local Government Unit (LGU) to monitor vehicular accident reports

MoodShelf | *Python, Streamlit, Git*
- Built an emotion-based book recommender system using **Content-based Filtering**
- Leveraged **DistilRoBERTa** to extract emotions from book descriptions

SmartCents | *Flutter, Python, SQLite, Git*
- Created a financial literacy mobile application using **Flutter**, incorporating machine learning and algorithmic techniques.
- Trained a **Decision Tree** model with 93.26% accuracy to recommend personalized financial literacy modules
- Implemented **Merge Sort** algorithm to efficiently sort expenses in descending order
- Applied the **Fractional Knapsack** algorithm to optimize budget allocation across categories based on weighted priorities

Estimated Global Religion Distribution by Country | *Tableau*
- Visualized an online dataset using Tableau to map religious adherence percentages across different countries

TECHNICAL SKILLS

Languages: Python, Dart, JavaScript, HTML/CSS, C++
Frameworks: Flutter, Flask
Developer Tools: Git, Linux (Ubuntu), LaTeX, Google Firebase, Tableau
Libraries: pandas, NumPy, Matplotlib, Seaborn, TensorFlow, scikit-learn, OpenCV

REFERENCES

Rolando B. Barrameda | *De La Salle University - Dasmariñas, CS Professor*
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