Prince Daniel D. Mampusti

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Objective

Computer Science student with demonstrated experience in machine learning and natural language processing, focusing on implementing transformer architectures and deep learning solutions. Combining strong technical foundations in Python development with practical expertise in computer vision and NLP projects. Passionate about advancing AI technologies while delivering scalable, production-ready solutions.

Education

First Asia Institute of Technology and Humanities — *Tanauan City, Batangas*
BS in Computer Science — *Aug 2021 to Jun 2025*

- Coursework: Data Structures, Algorithms, Software Development, Web Development, Machine Learning, Data Science
- Dean's List AY. 2023-2024

Malvar Senior High School — *Malvar, Batangas*
TVL in Information and Communication Technology — *Jul 2019 to Jul 2021*

- Award: With Honors

Skills

Emotional Intelligence: Adaptability, Collaboration, Communication, Critical Thinking, Time Management

Programming Languages: C, C#, C++, Java, Python

Data Science and Machine Learning: NumPy, Pandas, PyTorch, Scikit-learn, TensorFlow, Transformers

Frameworks: Bootstrap, Django, Flask, HTMX, Tailwind CSS

Development Tools: Docker, Git, Gradio, MySQL, Qdrant, Streamlit

Certification

CompTIA Information Technology Fundamentals — *May 2024*
CompTIA ITF+

Projects

Snapfolia: Leaf Classification — *trees.firstasia.edu.ph*

- Implemented a leaf detection pipeline using Grounding DINO, a state-of-the-art zero-shot object detection model that enables open-set leaf classification without requiring retraining
- Tools Used: Python, Transformers

Barkley: Tree Bark Classification — *barkley.streamlit.app*

- Fine-tuned transformer-based models on custom tree bark dataset for species identification
- Deployed a Streamlit web interface for users to upload and classify tree bark images
- Tools Used: Python, Streamlit, Transformers

Semanticlip: Semantic Image Search — *Dec 2024*

- Developed a semantic search system enabling efficient retrieval through both image-to-image and natural language queries, leveraging a vector database
- Tools Used: Python, Gradio, Qdrant