

Dale Vincent A. Montaña

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TECH SKILLS

Programming: Java, JavaScript, Python, MySQL

Frameworks: Tensorflow, Keras, React

EDUCATION

National University - Lipa — *Computer Science*

2022 - PRESENT, LIPA CITY, BATANGAS

Relevant Coursework: Systems Programming, Data Structures and Algorithms, Advanced Machine Learning, Deep Learning, Software Engineering

The Mabini Academy - Lipa — *Accountancy, Business, and Management* 2020 -

2022, LIPA CITY, BATANGAS

PROJECTS

Student Attendance System Using Deep Learning–Based Facial Recognition

Designed and developed a student attendance system using deep learning–based facial recognition. The project utilizes Convolutional Neural Networks (CNN) for facial feature extraction and evaluates YOLOv8 and SSD models for accurate face detection. A camera is used to collect student image datasets, and the system runs on a computer or web-based platform to automate attendance recording efficiently and accurately.

Using KNN on predicting Enrollment Probability, for NU-Lipa Admission

A Django-based student admission system for NU Lipa, allowing student registration, admin management, and future ML integration for processing applications.

AI Caimito Fruit Classification Using Deep Learning

Developed an image-based Caimito fruit classification system using deep learning to distinguish Caimito fruits from non-Caimito objects. The project involved dataset preparation, image preprocessing, and data augmentation, along with the application of transfer learning to improve feature extraction and classification performance. Model training, fine-tuning, and evaluation were conducted using VS Code as the primary development environment, with performance metrics such as F1 Score, Precision, Recall, and Accuracy.

Automated Grapevine Disease Detection Using YOLO

Developed a deep learning-based grapevine disease detection system using the YOLO object detection algorithm to identify multiple leaf diseases, including downy mildew, powdery mildew, black rot, ESCA, and leaf blight. The project involved curating and annotating over 5,000 grapevine leaf images, applying image preprocessing and data augmentation to improve robustness under varied environmental conditions, and training a YOLO-based model for real-time detection.

Coffea Liberica Farm Geo-Mapping and KNN-Based Sensory Lexicon Classification

Developed a data-driven framework integrating geo-mapping and machine learning to support the authentication, spatial analysis, and sensory classification of *Coffea liberica* (Kapeng Barako) farms in Lipa City, Batangas. The project utilized geo-mapping techniques to visualize and analyze the geographic distribution of Liberica-growing areas and assess environmental factors influencing coffee quality, alongside a K-Nearest Neighbors (KNN) algorithm to classify sensory lexicon data derived from standardized cupping evaluations. By combining spatial data with sensory-based classification, the system provides consistent, quantitative insights into coffee quality, supports farm origin verification, and contributes to the revitalization of the local coffee industry while aligning with the Sustainable Development Goals related to agricultural productivity, rural livelihoods, responsible production, and biodiversity conservation.

ADVANCEMENT AND PARTICIPATIONS

Base Build Calabarzon — *Certificate of Participation Holder*

SEPTEMBER 10, 2025, NATIONAL UNIVERSITY - LIPA

A seminar for blockchain development, within a day of hands-on, learning, collaboration and on chain creation.

CERTIFICATIONS

IC3 DIGITAL LITERACY GLOBAL STANDARD SIX - CERTIPOINT



PROMPT ENGINEERING SPECIALIZATION - COURSERA (VANDERBILT UNIVERSITY)

CHATGPT ADVANCED DATA ANALYSIS - COURSERA (VANDERBILT UNIVERSITY)

HTML, CSS, AND JAVASCRIPT FOR WEB DEVELOPERS SPECIALIZATION - COURSERA (JOHNS HOPKINS UNIVERSITY)

META FRONT-END DEVELOPER PROFESSIONAL CERTIFICATE - COURSERA