Galuh Ajeng Chandraningtyas

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Enthusiastic mathematics student with a strong fascination for Machine Learning (ML) and Artificial Intelligence (AI), aiming to utilize mathematical principles to tackle intricate challenges within these domains.

Working Experience

Aug 2024 - Jan 2025
Jakarta, Indonesia

Artificial Intelligence Engineer Intern
PT Bank Rakyat Indonesia (Persero) Tbk

Focused on developing and deploying advanced AI solutions in Computer Vision and Time Series Forecasting.
- Designing and implementing object detection and image segmentation models using state-of-the-art frameworks like YOLOv8.
- Developing automated systems to detect and analyze objects in real-time video feeds for operational optimization.
- Building predictive models using a Temporal Fusion Transformer to forecast debit and credit amounts, enhancing financial planning and decision-making.
- Leveraging customer transaction data to identify trends and improve long-term financial projections.

Education

2022 - Present

Parahyangan Catholic University, Bandung.
Mathematics

Relevant Coursework : Calculus, Deep Learning with Physicists, Linear Algebra, Statistical Mathematics, Discrete Mathematics, Selected Topics in Computation.

Project

Mathematics Department Website Development | Selected Topics in Computation Course

- Developed a website for the Mathematics Department as part of the "Selected Topics in Computation" course.
- Created a feedback pop-up system that stores responses in a connected spreadsheet. Tools using HTML, CSS, and JavaScript.

Face Recognition System

- Built a real-time face recognition system for identity verification.
- Improved accuracy using feature extraction and classification techniques.
- Implemented using Python, Pytorch, VGG, OpenCV.

Hand Gesture Tracking & Volume Control

- Developed a real-time hand-tracking system for volume control based on hand gestures.
- Used hand landmark detection to map gestures for dynamic volume adjustment.
- Implemented using Python, OpenCV, and MediaPipe.

Rock Paper Scissors Image Classifications

- Built a machine learning model to classify hand gestures of rock, paper, and scissors.

- Achieved over 90% accuracy on both training and validation datasets.
- Implemented using CNNs in Python with TensorFlow and Keras.

Technical Skills

- **Programming Languages:** Python (NumPy, Pandas, Scikit-learn)
- **Machine Learning Frameworks:** TensorFlow, Keras, PyTorch
- **Time Series Forecasting:** ARIMA, Prophet, LSTM
- **Computer Vision:** OpenCV, MediaPipe, YOLOv8
- **Data Visualization:** Matplotlib, Seaborn
- **Tools & Technologies:** Git, Google Colab, Jupyter Notebook
- **Web Development:** HTML, CSS, JavaScript

Certifications

- **British Airways - Data Science Job Simulation** (Forage, Jan 2025)
- **Deep Learning with PyTorch: Image Segmentation** (Coursera Project Network, Aug 2024)
- **Visualizing Filters of a CNN using TensorFlow** (Coursera Project Network, Jun 2024)
- **Basic Image Classification with TensorFlow** (Coursera Project Network, May 2024)