FERDICO CHANDRA

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Tangerang, Banten, Indonesia

Profile

Undergraduate Information Systems student specializing in **Machine Learning and Web Development**, with strong experience in building **end-to-end AI-powered web applications**. Proficient in developing predictive models and deploying them into interactive web systems using Flask and modern data tools. Interested in internship opportunities as a **Machine Learning Engineer, Data Scientist, or AI-focused Web Developer** to build scalable, real-world solutions.

Education

Universitas Multimedia Nusantara, *Information System* 2023 – 2027
GPA: **3.74/4.00** (Cumulative) | Recent Semester GPA: **3.97/4.00**
Relevant coursework: Database Systems, Big Data Analytics, Machine Learning, Data Visualization, Web Development.

Experience

Database Systems Laboratory Assistant, *Universitas Multimedia Nusantara*

- Assisted in conducting laboratory sessions for Database Systems.
- Taught students the fundamentals of SQL, including data definition, data manipulation, and query operations.
- Guided students in using aggregate functions and advanced SQL queries for data analysis.
- Introduced and explained database normalization concepts up to the 3rd Normal Form (3NF).
- Provided hands-on mentoring and troubleshooting during lab sessions to ensure student comprehension.

Projects

Plant Disease Detection with Residual Network 50 (ResNet50)

- Built a deep learning model (ResNet architecture) to classify plant diseases across 15 categories, including tomato, potato, and pepper plants.
- Achieved 93% accuracy in detecting diseases such as bacterial spot, early blight, and leaf mold.
- Developed a user-friendly web application for real-time prediction and visualization of plant health. Technologies used: Python, PyTorch, TensorFlow/Keras, Flask, ResNet, and OpenCV.

Brain Disease Detection with Support Vector Machine (SVM)

- Built a machine learning model (Support Vector Machine) to detect 3 brain disease.
- Achieved 98% accuracy in detecting diseases such as brain tumor, aneurysm, and cancer.
- Developed a user-friendly web application for real-time prediction. Technologies used : Python, PyTorch, TensorFlow/Keras, Flask, SVM, and OpenCV.

BBCA Stock and Bitcoin 12 Month Price Forecasting with TimesNet

- Developed a time series forecasting model using TimesNet to predict BCA (BBCA) stock prices and Bitcoin (BTC) trends.
- Collected and processed historical financial data for model training and evaluation.
- Achieved accurate short-term predictions by leveraging deep learning techniques for sequential data.
- Technologies used: Python, PyTorch, TimesNet, Pandas, Matplotlib, and Seaborn.

Skills

Programming & Data
- Python (Pandas, NumPy, Scikit-learn, TensorFlow/ Keras, PyTorch)
- SQL (MySQL)

Machine Learning & AI
- Supervised & Unsupervised Learning (Regression, Classification, Clustering)
- Deep Learning (CNN, RNN, ResNet, TimesNet)
- Time Series Forecasting & Predictive Analytics

Soft Skills
- Analytical thinking & problem-solving
- Communication (explaining insights to technical & non-technical audiences)
- Teamwork & collaboration
- Adaptability & eagerness to learn

Data Visualization
- Tableau, Power BI, SAS Visual Analytics
- Matplotlib, Seaborn

Web Development
- HTML
- CSS
- Javascript
- PHP

Tools
- GitHub
- Jupyter Notebook
- Flask, Streamlit (model deployment & dashboard)
- Google Big Query
- PowerBI
- Tableau

Language

Indonesia
Native

English
Intermediate