MUHAMMAD FARID FEBRIANSYAH PRASETYO

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Bekasi, Jawa Barat, Indonesia

Mechatronics and Artificial Intelligence student with a deep understanding of data structures, algorithms, and object-oriented programming logic, which provides a strong foundation for data processing and model development. Demonstrated problem-solving and analytical thinking skills through experience building systems. Passionate about learning and implementing new technologies in Machine Learning and Data Analytics. Experienced in developing machine learning models using Python (Scikit-Learn, TensorFlow), data processing. Familiar with data visualization and dashboard development using Matplotlib, Seaborn, and Power BI. Strong technical communication skills, able to explain complex concepts to a variety of audiences. Seeking an Internship in AI/Machine Learning or Data Scientist to contribute to data processing and predictive modeling initiatives.

EDUCATION

Universitas Pendidikan Indonesia — Purwakarta, Indonesia
Majoring: Mechatronics and Artificial Intelligence | GPA: 3.56 / 4.00 — Sep 2023 – Present

Relevant Courses:

Basic Programming, Database Systems, Algorithms & Data Structures, Object-Oriented Programming, Artificial Intelligence, Statistic, Machine Learning

PROJECT EXPERIENCE

Final Exam (Machine Learning) — Dec 2025
Smart Motor Monitoring System

- Designed and implemented database structure using Firebase Realtime Database
- Developed a responsive and user-friendly interface
- Built bearing fault prediction models using Machine Learning techniques
- Implemented electrical parameter monitoring using IoT sensors
- Developed motor condition diagnosis through Expert System integration

Healthkathon BPJS — Nov 2025
Teman Sehat (Health Chatbot Project)

- Developed an AI-based health chatbot integrating expert system + LLM concept for disease screening
- Built rule-based diagnostic engine for early symptom assessment using decision logic
- Implemented knowledge base using a vector database referencing JKN facilities and medical rules

Project Midterm Exam (Machine Learning) — Nov 2025
Predicting New Patient Fee Classes

- Processed and analyzed 94,000+ healthcare membership records from a national health insurance dataset
- Built and compared multiple models, including Logistic Regression and Random Forest Classifier
- Achieved 82% classification accuracy with balanced performance across major and minor classes
- Evaluated models using accuracy, precision, recall, F1-score, and confusion matrix
- Trained a final production-ready model and validated it using unseen (new) data samples

EMAIL SORTING & SMART REPLY AGENT (Chatbot AI Agent Project) Nov 2025

- Design an AI agent workflow that is capable of sorting emails into various categories such as urgent, important, task, promo, and spam
- Built a custom tool called email_sort_and_reply that reads emails from a file, performs content analysis, and generates summaries and automated reply recommendations
- Integrate agents with LLM via the OpenRouter API to dynamically process summaries and generate smart replies

Ruang Tani (Object Oriented Programing Project) Okt - Dec 2024

- I create database structures using PHP
- I build the User Interface
- I build a Model View Controller Structure using the Object Oriented Programming concept

ORGANIZATIONAL EXPERIENCE

Trisula Suaka 2025 Nov 2025
Head of Secretary

- Led team for creating an archiving drive
- Creating a monitoring system via a spreadsheet

SKILLS

Programming	Python (Pandas, NumPy, Scikit-Learn, TensorFlow), SQL (MySQL, PostgreSQL), Java (OOP), PHP, JavaScript
Tools	Git, VS Code, Jupyter Notebook, Cursor
Soft Skills	Analytical Thinking, Team Collaboration, Communication, Curiosity, Problem Solving, Leadership, Fast Learner

CERTIFICATIONS

- Machine Learning Path – Dicoding Indonesia (2024)
- Data Analysis with Python – Coginitive Class (2026)
- Customer Clustering with KMeans to Boost Business Strategy – Coginitive Class (2026)