

Dafa Ghani Abdul Rabbani

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Computer Science student at Universitas Padjadjaran with a strong enthusiasm for learning and exploring new technologies. Interested in Web Development, Data Science and Machine Learning. Actively involved in organizational activities and collaborative project teams, with strong adaptability and teamwork skills.

EDUCATION

BACHELOR OF COMPUTER SCIENCE

Universitas Padjadjaran

Cumulative GPA: 3.92/4.0

Relevant coursework: Data Structures & Algorithms, Web Programming, Artificial Intelligence, etc.

Sumedang, Indonesia

Aug 2023 – Present

EXPERIENCES

PUSAT INOVASI PENGAJARAN DAN PEMBELAJARAN (PIPP) UNPAD

Machine Learning Engineer Intern

- Developed survey methodologies for Electroencephalography (EEG) data collection to improve learning video quality.
- Built a web-based survey data collection platform integrated with the Muse S Athena EEG Headband.
- Collected and processed survey data from 8 respondents for machine learning analysis.
- Evaluated and compared 3 machine learning models (SVM, Random Forest, XGBoost) based on performance metrics to select the most efficient model.

Sumedang, Indonesia

Aug 2025 – Dec 2025

INFORMATICS FESTIVAL 2025

Manager of IT Competition

- Concepted 4 competitions including Competitive Programming, Data Analysis Competition, Essay Competition, and Hackathon.
- Managed 400+ participants across competition from 40+ universities and high schools nationwide.
- Led execution of Hackathon Day attended by 15 Hackathon finalist teams, ensuring smooth technical and operational delivery.

Indonesia

Jun 2025 – Oct 2025

DEPARTMENT OF COMPUTER SCIENCE UNPAD

Laboratory Teaching Assistant

- Delivered weekly lab sessions for over 80 undergraduate students across three courses: Object-Oriented Programming, Web Programming, and Computer Organization & Architecture.
- Evaluated and gave feedback on 10+ assignments throughout the semester, resulting in 92% passing rate.
- Mentored students through 10+ final group projects, guiding the implementation of OOP principles, full-stack web application development, and basic assembly programming.

Sumedang, Indonesia

Feb 2025 – Dec 2025

HIMATIF FMIPA UNPAD

Staff of IT Development Department

- Facilitating training sessions and IT-related competition preparation for 100+ participants.
- Designed a structured 6-session mentoring syllabus for mentors across three competition tracks, outlining learning objectives, materials, and preparation strategies.
- Contributed to the success of teams advancing to national and international competition finals, with three teams qualifying as finalists.

Sumedang, Indonesia

Feb 2024 – Dec 2025

PROJECTS

COREN: CLUSTERING & RECOMMENDATION

Dec 2025

- Developed a web-based customer segmentation application using RFM analysis and K-Means clustering to support data-driven marketing strategies.
- Implemented an end-to-end data pipeline with RFM analysis and K-Means clustering, and developed the frontend using HTML, CSS, and JavaScript integrated with a Flask backend.
- Built interactive analytical dashboards and visualizations to present customer segmentation, revenue contribution, and strategic recommendations.

Skills: Machine Learning, Web Development, Data Visualization & Analytics

ROBOT ANGKLUNG: HAND SIGN-CONTROLLED ROBOT

Oct 2025 – Dec 2025

- Developed a hand gesture-controlled robotic system capable of playing Angklung instruments using camera-based motion detection.
- Implemented real-time computer vision with Python (MediaPipe) and integrated Arduino (C++) for precise actuator control.
- Showcased an integrated system combining AI-driven vision, embedded hardware, and musical robotics.

Skills: Computer Vision, Embedded Systems, Arduino

RODAZA COFFEE: COFFEE SHOP ORDER MANAGEMENT

Aug 2024 – Dec 2024

- Developed a role-based coffee ordering website using CodeIgniter 4, supporting both admin and customer functionalities.
- Implemented online ordering including Dine-In and Delivery order option, and payment features using Midtrans.
- Built an admin dashboard for real-time order management and sales reporting to improve operational efficiency.
- Designed a responsive and user-friendly interface to enhance customer experience and streamline the ordering process.

Skills: Full Stack Web Development

And 5+ more projects covering IOT, AI, Machine Learning & Computer Vision, Web Development, etc.

ADDITIONAL

Technical Skill: Python, C++, PHP, Laravel, CodeIgniter4, SQL, Java, AI, Data Science and Machine Learning, Front-End Web (HTML, CSS, JavaScript), Computer Graphics, **etc.**

Soft Skill: Teamwork, Project Management, Time Management, Problem Solving, **etc.**