

# Danish Rahadian Mirza Effendi

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## Professional Summary

Computer Science student at Padjadjaran University with expertise in Data Analyst, Data Science, and AI Engineering. Active team member with strong time management, problem-solving abilities, and experience working under pressure. Proven track record in leadership roles and technical project implementation.

## Education

**Padjadjaran University**, Bachelor of Informatics Engineering, Sumedang, West Java      Sept 2023 – Present

- GPA: 3.96/4.00. Recipient of Panin AM and Karya Salemba Empat (KSE) Scholarships.

## Professional Experience

**AI Engineer Intern**, Center for Teaching and Learning Innovation, Padjadjaran University – Sumedang, West Java      Aug 2025 – Dec 2025

- Developed an AI project to predict student emotional states (stress, engagement, focus) using EEG signal data.
- Implemented advanced preprocessing techniques and built machine/deep learning models for emotion classification.
- Documented findings and collaborated with supervisors to align research outcomes with educational Universitas Padjadjaran innovation goals.

**Teaching Assistant**, Informatics Engineering, Padjadjaran University – Sumedang, West Java      Jan 2025 – Dec 2025

- Provided assistance in Data Structures and Database Systems II courses.
- Mentored 90+ students per semester in coding practice and hands-on implementation of efficient algorithms and relational database design.
- Evaluated assignments and projects to reinforce student understanding of best programming and database practices.

**Chief Technology Officer**, Sundahub – Sumedang, West Java      Feb 2024 – Dec 2024

- Co-founded Sundahub, managing and developing the website architecture and functionality.
- Led technology strategy and implementation for startup operations.

## Technical Projects

**Food Price Forecasting in Indonesia**      April 2025

- Built multivariate time series model to forecast food prices across 34 provinces.
- Achieved best performance with XGBoost (MAPE: 0.05465) through automated forecasting pipeline.
- Tools Used: XGBoost, LSTM, ARIMA. Arkavidia 9.0 Datavidia Competition – ITB.

**Predictive Maintenance for Manufacturing**      Feb 2025

- Built machine failure prediction model using sensor data with anomaly detection.
- Handled 13M+ data entries; achieved optimal performance using threshold-based reconstruction error.
- Tools Used:** Anomaly Detection, Autoencoder, XGBoost. Datavers ANAVA #19 – UGM, 3rd Place Winner.

**Policy Approaches to Address the Triple Burden of Malnutrition in Indonesia**      Oct 2024

- Conducted policy analysis comparing Indonesia's nutrition strategies with global best practices, providing actionable recommendations to support SDG 2. DAC IFest 2024 – 3rd Place Winner.

**Analyzing Instagram Comments on Customs Policy Using K-Means Clustering**      May 2024

- Analyzed Instagram comments using K-Means clustering for public sentiment patterns around government policy perception. Prepared for GEMASTIK 2024 submission.

## Leadership & Organizational Experience

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**Head of Professional Department**, Informatics Student Association (HIMATIF) – Feb 2024 – Dec 2024  
Sumedang, West Java

- Led a team of 9 staff, managing 4 key annual programs and coordinating with external stakeholders (BCA, Traveloka, Dicoding).
- Executed seminars (400+ participants) and workshops (35+ participants) on technopreneurship. Recognized as best department head.

**Project Officer**, Character Building Season 2025 – Sumedang, West Java May 2025 – Oct 2025

- Led the department-level orientation program for 107+ new students, managing a team of 90+ committee members.

**Project Officer**, Try Out Rujak KSE Unpad – Sumedang, West Java Nov 2024 – Jan 2025

- Led flagship program generating over 1 million IDR in profit with 100+ participants.

## Skills

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**AI/ML & Data:** Machine Learning, Deep, Forecasting, LLM, Databases, Excel, PowerBI.

**Development:** Python, MySQL, C++, C#, HTML, CSS, JavaScript, PHP, CodeIgniter 4, Next.js, OpenCV, YOLOv5, Unity.

**Soft Skills:** Leadership, Strategic Thinking, Critical Analysis, Effective Communication, Team Management, Problem Solving.

## Awards & Achievements

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**Panin AM Scholarship Awardee** 2025

**3rd Place, DataVers ANAVA #19** – Universitas Gadjah Mada 2025

**3rd Place, Data Analyst Competition IFest** – Universitas Padjadjaran 2024

**Karya Salemba Empat (KSE) Scholarship Awardee** 2024

**P2MW Awardee & Unpadpreneur Awardee** – Grant for business development from Kemendikbudristek & Unpad 2024