

# Rifky Setiawan

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## Summary

I am an undergraduate student in Computer Science at Universitas Gadjah Mada with a strong focus on machine learning, natural language processing, and reliable artificial intelligence. My academic and project experience centers on building efficient and calibrated models for text, speech, and tabular data, with attention to robustness, reproducibility, and practical deployment. Outside the classroom, I actively contribute to student organizations and outreach programs, combining technical depth with leadership and communication skills. I aim to bridge rigorous engineering with real-world relevance in both research and applied settings.

## Education

### Universitas Gadjah Mada

B.Sc. in Computer Science, GPA: 3.53/4.0

Yogyakarta, Indonesia

2023 – Present

- **1<sup>st</sup> Runner Up**, Contest of Wits – Festival Karakter 2023, Universitas Gadjah Mada
- **7<sup>th</sup> Place**, Data Science – Gerakan Belajar Bersama Sains Data 2023, Universitas Pembangunan Nasional 'Veteran' Jawa Timur
- **Top 10 Finalist**, Data Mining – Universitas Gadjah Mada, Pagelaran Mahasiswa Nasional Bidang Teknologi Informasi dan Komunikasi 2024

**Relevant Coursework:** Artificial Intelligence, Machine Learning, Deep Learning, Pattern Recognition, Digital Image Processing, Bioinformatics.

## Projects

Full interactive notebooks and visual reports available at [rifkysetiawan.site](http://rifkysetiawan.site)

### Audio Sentiment Classification with MFCC and LSTM

[Link ↗](#)

- Developed a lightweight sentiment classifier using MFCC and LSTM on 2,800 samples from the TESS dataset (7 emotions), achieving macro-F1 optimization with per-class confusion analysis.
- Deployed memory-efficient inference (<25 MB RAM), supporting single and batch audio prediction with CPU latency under 100 ms.

### Multi-Task Learning for Safety-Critical Text

[Link ↗](#)

- Built a calibrated multi-task model for emotion, GBV, and hate/offense across 30,000+ tweets using a shared encoder and stratified subsets.
- Applied temperature and isotonic scaling to reduce low-confidence errors, enabling abstention with <10% error at ~90% coverage.

### RAM-Safe Dialogue Summarization with FLAN-T5 Small

[Link ↗](#)

- Fine-tuned FLAN-T5 Small on 13,460 dialogues (DialogSum) with instruction prefixing and safe batching, achieving ROUGE-1/2/L of 41.3 / 19.7 / 38.2.
- Maintained factuality with entailment checks and constrained decoding while keeping memory usage under 1.3 GB for CPU deployment.

## Work Experience

### Pertamina Patra Niaga

Data Analyst Intern

Riau Islands, Indonesia

Jul 2025 – Aug 2025

- Developed an interactive Power BI dashboard consolidating 300+ daily transactions from three Batam-area fueling stations, accelerating sales reporting and decision-making processes by over 50%.
- Designed a Python-driven ranking dashboard to analyze 2,000+ rows of weekly transaction data, pinpoint underperforming stations, and enable more targeted performance improvement strategies.

### Intelligo ID

Data Science Class Manager

Indonesia

Feb 2025 – Jul 2025

- Led 3 trial data science classes (150+ participants), developed 2 tailored PPT presentations to enhance engagement. Collaborated with product managers to refine 4 course offerings, achieving 10% conversion rate to paid bootcamps through feedback-driven iterations.
- Spearheaded a 4-month data science bootcamp (25 sessions, 15 participants), managing attendance, mentor-participant coordination, and personalized learning workflows. Maintained 75% session attendance and improved participant satisfaction by 15% via structured feedback loops and adaptive class management.

## Vinix7

Junior Data Scientist

Indonesia

Feb 2025 – Jun 2025

- Cleaned/structured 5 datasets (CSV, SQL) using Python (Pandas), resolving missing values and outliers, reducing preprocessing time while improving data consistency for EDA
- Performed EDA (Matplotlib/Seaborn) and hypothesis testing (t-test, chi-square), uncovering 5+ actionable insights on customer trends, later validated for stakeholder decisions.

## Leadership Experience

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### Komunitas Mahasiswa Teknologi Informasi dan Komunikasi Universitas Gadjah Mada

Yogyakarta, Indonesia

Vice Head of Data Mining & Artificial Intelligence Division

Oct 2024 – Oct 2025

- Managed the selection process alongside cross-faculty evaluators, screening proposals to shortlist 5 finalists.
- Collaborated with 2 external organizations to plan and execute 2 internal division-wide workshops.

### Batam Campus Expo 2025

Yogyakarta & Riau Islands, Indonesia

Founder & General Coordinator

Sep 2024 – Jan 2025

- Organized Indonesia's largest and first campus expo, attracting over 1,000 participants and partnering with 12 universities, 70 high schools, and 20 student organizations.
- Ensured seamless event execution by leading a team of 138 staff across nine divisions, managing all operational aspects.

### Awak Gadjah Mada

Yogyakarta, Indonesia

Chairman

Mar 2024 – Dec 2024

- Developed and implemented 5 work programs involving 36 members, increasing member participation in organizational activities by 40%.
- Collaborated with 3 external stakeholders to ensure program sustainability, resulting in a 25% increase in funding support for organizational activities.

### StudentsxCeos Yogyakarta

Yogyakarta, Indonesia

Operations Staff

Mar 2024 – Nov 2024

- Led "School of Ideas" event (2 speakers, 50 participants), achieving 90% attendance and 85% positive feedback via team collaboration.
- Coordinated 30+ media partners, expanding outreach to 100+ potential applicants, and managed 48 business case submissions with 2 judges, resulting in 5 qualified teams for final evaluation.

## Skills

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**Programming Languages:** Python, SQL, Java, C++, JavaScript

**Tools:** Git, Jupyter, LaTeX, Docker, Power BI, Excel

**Libraries & Frameworks:** PyTorch, TensorFlow, Scikit-learn, HuggingFace Transformers, spaCy, NLTK

**Languages:** Bahasa Indonesia (Native), English (Advanced, DET 120), Japanese (Beginner)

**Soft Skills:** Critical Thinking, Research Writing, Communication, Collaboration, Adaptability