

RIFKY SETIAWAN

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SUMMARY

Computer Science undergraduate at Universitas Gadjah Mada with hands-on experience in AI engineering, data analytics, and research. Proficient in building end-to-end AI systems and translating large datasets into actionable insights using Python, SQL, BigQuery, and Power BI. Currently conducting large-scale political event research at the Institute of Science Tokyo. Interested in applying data science and AI to large-scale behavioral and business problems.

EDUCATION

Universitas Gadjah Mada

B.Sc. in Computer Science | GPA: 3.54 / 4.0

Yogyakarta, Indonesia

2023 – Present

- **Top 10 UGM Delegate (out of 23 teams)**, Data Mining – GEMASTIK 2024, advancing to national semifinal
- **7th Place** out of 65 teams, Data Science Competition – GELAR RASA 2023, UPN Veteran Jawa Timur

WORK EXPERIENCE

Institute of Science Tokyo (Science Tokyo)

AI Research Intern

Tokyo, Japan

Apr 2026 – Present

- Constructed temporal event knowledge graphs from 50,000 GDELT political events each for the USA and Indonesia via a SQL-Cypher pipeline into Neo4j, applying actor normalization and entity resolution, and identifying a 115–138 day cooperative-to-conflict causal latency across 468,000+ actor interaction sequences.
- Trained a dual-head Temporal Graph Network (TGN) with gSpan-lite subgraph features for 4-class relation type prediction on the Indonesian political event graph, outperforming XGBoost and logistic regression baselines across single-era and multi-year data scopes.

Ministry of Communications and Digital Affairs (Komdigi)

AI Engineer | Part-time

Remote, Indonesia

Feb 2026 – Jun 2026

- Engineered a 200M+ token Indonesian language corpus with strict preprocessing (deduplication, toxic text filtering, and character encoding correction) optimized for government, public news, and informal social media domains.
- Produced 20,000 synthetic SFT instruction samples across 4 task types (article summarization, issue analysis, ABSA, and contextual chatbot) to fine-tune a Qwen3-4B-Base model on digital dialect, sarcasm, and aspect-based sentiment patterns in Indonesian text.

Indonesia Stock Exchange (IDX)

Data Management Intern (Market Development)

Riau Islands, Indonesia

Jan 2026 – Mar 2026

- Built a Medallion data pipeline (Bronze-Silver-Gold) using Python and SQLite, consolidating 6 public datasets covering 604 listed companies, 55-day OHLCV trends, and 3,300+ IndoBERT-labeled news articles into a Star Schema data warehouse with a fully automated ETL script.
- Developed a Power BI dashboard with SQL views and DAX measures to visualize fundamental-sentiment divergence across 114 liquid stocks, using the January 2026 MSCI rebalancing panic as a case study for the Market Development team's Sekolah Pasar Modal (SPM) program.

Pertamina Patra Niaga

Data Analyst Intern

Riau Islands, Indonesia

Jul 2025 – Aug 2025

- Developed an interactive Power BI dashboard for Batam's only Green Energy Station (GES) consolidating 500+ daily transactions, covering sales trend monitoring, daily and weekly performance tracking, and station ranking analysis against regional targets.
- Built a Python-based script processing 3,500+ weekly transactions to identify underperforming periods and surface actionable sales insights, presenting findings to management as data-driven operational recommendations.

SELECTED PROJECTS

Multi-Task Learning for Safety-Critical Text

- Engineered a calibrated multi-task NLP model (shared encoder) to classify emotion, GBV, and hate speech across 30,000+ tweets; applied temperature and isotonic scaling to achieve <10% error at ~90% prediction coverage.
- Demonstrated end-to-end AI system development from dataset curation through evaluation, directly applicable to production monitoring and quality assurance pipelines.

RAM-Safe Dialogue Summarization with FLAN-T5 Small

- 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 while maintaining factuality via entailment checks and constrained decoding.
- Demonstrated end-to-end LLM development from data prep through fine-tuning and evaluation, with memory-efficient deployment (<1.3 GB) applicable to production-scale language pipelines.

LEADERSHIP EXPERIENCE

Komunitas Mahasiswa Teknologi Informasi dan Komunikasi UGM
Vice Head, Data Mining & AI Division

Yogyakarta, Indonesia
Oct 2024 – Oct 2025

- Led internal selection for GEMASTIK (Data Mining division), reviewing 20+ proposals to secure 10 national delegates, while forging partnerships with 2 external organizations to deliver AI and data mining training workshops.

Batam Campus Expo 2025
Founder & General Coordinator

Yogyakarta & Riau Islands, Indonesia
Aug 2024 – Feb 2025

- Founded and directed Batam's first large-scale campus expo, leading a 138-member team to connect 2,000+ students across 70 high schools with 32 institutions, securing ~IDR 30M from 10 corporate sponsors and garnering coverage across 9 regional media outlets.

Awak Gadjah Mada
Chairman

Yogyakarta, Indonesia
Feb 2024 – Feb 2025

- Steered a 36-member organization to launch a 16-school educational outreach initiative, securing IDR 12M in corporate sponsorships and partnerships with 3 regional government entities to fund university preparation programs.

SKILLS

Programming & Databases: Python, SQL, Golang, C++, JavaScript, BigQuery, Neo4j (Cypher)
Data & Analytics: Power BI, Excel (Pivot Tables, VBA), ETL Pipelines, Statistical Analysis
ML & Frameworks: PyTorch, TensorFlow, Scikit-learn, Hugging Face Transformers, Ultralytics (YOLO)
Tools: Git, Jupyter, Docker, LaTeX
Languages: Bahasa Indonesia (Native), English (Advanced, DET 120), Japanese (JLPT N5)