Muhammad Rafi Syafrinaldi

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EXECUTIVE SUMMARY

Master's in Computer Science (Fast Track) candidate at Universitas Gadjah Mada (expected November 2025) with **3+ years of experience** in machine learning engineering, full-stack development, and data engineering. Proven ability to design and deploy **scalable ML models** (financial forecasting, anomaly detection, investment analytics) and build **cloud-native applications** leveraging AWS, Docker, and CI/CD pipelines. Proficient in Python, Scikit-learn, XGBoost, Hugging Face Transformers, and ETL tools (Talend). Fully available for full-time roles in AI/ML and data-driven solutions.

SKILL

- **Programming Languages:** Python, R, C++, JavaScript, HTML, CSS, Git, Docker
- **Machine Learning & NLP:** TensorFlow, PyTorch, Scikit-learn, XGBoost, Random Forest, Neural Networks, RAG (Retrieval-Augmented Generation), FAISS, BM25
- **Big Data & Cloud Technologies:** Apache Spark, Kafka, Airflow, DBT, AWS, Google Cloud Platform (GCP), BigQuery, Hive, HDFS, SQL
- **Data Science & Technologies:** ETL Pipelines, Data Modeling, A/B Testing, Statistics, Time Series, Experimental Design, Hypothesis Testing, Data Visualization (Matplotlib, Seaborn, Tableau, Power BI)

EXPERIENCE

Machine Learning Engineer Intern — Glendale, California
Caprae Capital Partners — *March 2025 – June 2025*

- Developed and deployed **machine learning models** using **Scikit-learn**, **XGBoost**, and **Prophet** for **financial forecasting**, **anomaly detection**, and **investment analytics** on over **3,000+ financial records**; integrated results with **Hugging Face Transformers** and generated over **100 business reports** in PDF format using **WeasyPrint**, served through **Flask** and **FastAPI** endpoints.
- Led a team of engineers and collaborated with **3+ cross-functional teams** to build **scalable data pipelines**, engineer **20+ production-grade features**, and deploy models with **90% accuracy** in **real-time environments** using **Python** and **AWS services**.
- Directed the development of **10+ backend APIs** for a **lead generation application**, designing scraping workflows capable of handling **1,000+ companies/day**, integrated into an **AWS-hosted infrastructure** ensuring **99.9% uptime**.

Full-stack Developer Intern — Glendale, California
SaaSquatch Leads — *March 2025 – June 2025*

- Led a team to build a robust **scraping API system** handling **1,000+ daily requests**, with **rotating proxies**, **error recovery logic**, and **data normalization**; designed and implemented **10+ RESTful APIs** for **data processing** used across a **platform serving 5,000+ leads**.
- Provisioned and configured **AWS infrastructure** including **Lightsail**, **EC2**, **RDS Aurora**, **Amplify**, and **Route 53**, deploying services with **Docker**; implemented **CI/CD pipelines** using **GitHub Actions** and managed **10+ IAM roles** to enforce **least-privilege access control**, supporting a **99.9% SLA cloud-native environment**.

Project-Based Internship - Data Engineering — Remote
ID/X Partners — *February 2025 – March 2025*

- Developed **scalable ETL pipelines** and **data models** using **Talend**, processing over **20,000 transactional records** daily to enhance **real-time analytics** and reporting capabilities.
- Engineered **data workflows** that improved data accessibility and reduced manual processing time by **30%**, utilizing tools such as **Talend**, **SQL**, **DBMS**, and **Python**.

Sentiment Analysis Pipeline Developer — Pekanbaru, Indonesia
Universitas Islam Riau — *February 2023 – July 2023*

- Designed and deployed a **sentiment analysis pipeline** using **Python** and **SQL**, processing 500+ emails daily and improving preprocessing efficiency by **20%**.
- Built **automated ETL pipelines** centralizing data in SQL, reducing manual reporting time by **30%** and enabling real-time insights.

EDUCATION

Master of Computer Science (Fast Track); CGPA: 4.00/4.00 — Yogyakarta, Indonesia
Universitas Gadjah Mada — *August 2024 – November 2025*

- Fully funded by the **Department of Computer Science** scholarship.

- Focused on **data-driven systems**, including **Data Warehouse** and **Intelligent Business**.

Bachelor of Computer Science (Cum Laude); GPA: 3.71/4.00   Yogyakarta, Indonesia
Universitas Gadjah Mada   *July 2021 – November 2024*
- Completed coursework in **Deep Learning**, **Machine Learning**, **Artificial Intelligence**, **Databases**, **Computer Vision**, **Data Mining**, and **Data Visualization**.

Winter Abroad Program; GPA: 3.77/4.00   Seoul, South Korea
Yonsei University   *December 2023 – January 2024*
- Studied **Big Data Analytics** covering tools such as **Hive**, **HDFS**, **Tableau**, **Power BI**, and **Microsoft Excel**.

Data Science Bootcamp   Remote, Indonesia
Dibimbing.id   *July 2022 – December 2022*
- Trained in **Machine Learning**, **EDA**, **Data Cleaning**, **Data Manipulation** (Pandas), and **Data Visualization** (Seaborn, Matplotlib, Google Data Studio).

PROJECTS

Intelligent RAG Chatbot with Falcon-7B
Personal Project   *2024*
- Developed a **hybrid RAG chatbot** combining **BM25**, **FAISS**, and **Falcon-7B** for context-aware customer support.

Udemy Course EDA and Prediction
Personal Project   *2022*
- Conducted **EDA** on 3,000+ courses, revealing that **85% were paid**, with Web Development as the most popular subject.

Anemia Classification Study
Personal Project   *2023*
- Developed **SVM and Random Forest** models for anemia detection, achieving **85% accuracy** with optimized hyperparameters.

Modern Data Warehouse Pipeline
Personal Project   *2024*
- Built an **ETL pipeline** integrating sales data and exchange rates via **KNIME**, improving financial forecasting and reporting.

ACHIEVEMENT

Master DIKE Scholarship   *Aug 2024*
Awarded by Department of Computer Science and Electronics FMIPA UGM

ORGANIZATIONAL EXPERIENCE

Student Executive Board KM FMIPA UGM   Yogyakarta, Indonesia
Universitas Gadjah Mada   *July 2021 – November 2023*
- **Head of Design Department**
  Managed a team in creating engaging feeds for every social media platform of BEMKM FMIPA UGM.
- **Head of Creative, Grand Launching Event**
  Directed a team to design and produce necessary attributes and materials for stakeholders.

LANGUAGE

English: Professional Working Proficiency (**IELTS 6.5**, **DET 135**)   [Certification]
Indonesian: Native
Malay: Professional Working Proficiency