

Muhammad Rafi Syafrinaldi

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EXECUTIVE SUMMARY

Final-year Master's in Computer Science student at Universitas Gadjah Mada with 3+ years of experience in machine learning engineering, full-stack development, data engineering, and web development. Demonstrated ability to design and deploy scalable ML models for financial forecasting, anomaly detection, and investment analytics, as well as to build cloud-native applications using AWS, Docker, and CI/CD pipelines. Proficient in Python, Scikit-learn, XGBoost, Hugging Face Transformers, and ETL tools such as Talend. Open and fully available for full-time roles in AI/ML, web development, 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

Universitas Gadjah Mada

Yogyakarta, Indonesia

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