



FARREL JULIO AKBAR

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Bukit Cimanggu City Blok S4 No. 1, Kedung Badak, Bogor, West Java.

Final-year Data Science undergraduate at Institut Teknologi Sumatera with hands-on experience in machine learning, deep learning, and MLOps. Experienced in developing end-to-end ML pipelines including data ingestion, preprocessing, model training, experiment tracking, CI/CD, deployment, and real-time monitoring. Strong interest in building scalable and production-ready data systems.

Education Level

SMAN 2 BOGOR - Bogor, Indonesia.

Jul 2019 - May 2022

High School Diploma in MIPA, 87.00/100.00

ITERA (Institut Teknologi Sumatera)

Aug 2022

Undergraduate Majoring in Data Science, on the Science Faculty of Institut Teknologi Sumatera as an undergraduate student., 2.96/4.00

Work Experiences

PT Telekomunikasi Indonesia - Jakarta, Indonesia

Jun 2025 - Dec 2025

Data Scientist Intern | Artificial Intelligence & Automation Division

- Designed and deployed an AI-powered RAG chatbot using n8n, integrated with Supabase, OpenAI, Groq, Google Sheets, and BigQuery, and delivered across Telegram, Streamlit, and web platforms.
- Built end-to-end data pipelines including automated chat ingestion, knowledge base vectorization from Google Drive, and CDC-based data mirroring to support near real-time analytics.
- Implemented data streaming and analytical architectures using PostgreSQL, ClickHouse, PeerDB, Debezium, and Apache Flink to ensure reliable synchronization and scalable processing.
- Monitored pipeline performance and system reliability using Grafana and Percona, while collaborating with cross-functional teams under mentor supervision.

Rajawali Academy - Bogor, Indonesia

Jul 2024 - Aug 2024

Internship

Rajawali Academy is a professional shooting academy based in Bogor, West Java.

- Built an automated assessment and scoring system using Autocrat, significantly improving operational efficiency and reducing manual evaluation processes.
- Supported the setup of digital infrastructure across multiple business entities, including websites, company profiles, and identity systems, strengthening brand presence and operational readiness.
- Contributed to performance-driven digital marketing initiatives across multiple platforms, helping achieve 1,000+ product sales through data-informed promotional content and visual assets.

Bakmi Rempah - Bogor, Indonesia.

Jan 2021 - May 2023

Owner

Bakmi Rempah is a local Indonesian noodle business based in Bogor.

- Managed end-to-end business operations, including team supervision, SOP implementation, inventory, and cash flow control.
- Executed digital marketing strategies across social platforms, increasing sales by 20–50%.
- Developed and launched 3 new menu items within 3 months, contributing to up to 30% revenue growth and completed full business licensing.

Organisational Experience

MAGENTA 22

Oct 2022 - Dec 2022

Chief Komitee

Data Science Students at ITERA, Class of 2022

- Led the first Data Science 2022 cohort gathering with 140+ participants and 99% attendance rate.
- Coordinated 5 divisions and 27 committee members to ensure smooth event execution.

First Gathering D'23

Head of Division in Field Committee

Data Science Students at ITERA, Class of 2023

- Managed 15 field staff and coordinated event flow for 250+ participants.
- Designed event rundown and on-site coordination to ensure safety and engagement.

DAMASKUS

Jan 2024 - Present

Capo

DAMASKUS is a student sports organization that fosters the Data Science community at ITERA.

- Led and coordinated sports events with 200+ participants.
- Ensured safety, comfort, and smooth execution of all activities.

Skills, Achievements & Other Experience

- **Hard Skills**: Python, R, SQL, Machine Learning, Deep Learning, ETL, CDC, MLflow, DVC, CI/CD, Docker, Data Visualization, Grafana
- **Project** 📌 (2024): Gender Voice Detection – Full MLOps Platform
- **Projects** 📌 (2023): Debezium CDC Mirroring with Grafana Monitoring: Real-time PostgreSQL Replication
- **Projects** 📌 (2024): RAG Chatbot Automation using n8n
- **Projects** 📌 (2023): Strategic Housing Classification using KNN
- **Projects** 📌 (2024): Final Thesis Supervision Queue System Analysis (M/M/1)
- **Projects** (2024): Web Development for Rajawali Academy, Rajawali Alutsista, Medical Farma Store, Hijau Daun Inc
- **Achievements** (2024): Finalist at Infographic Competition University of RASIO 8.0, held by University Padjajaran
- **Achievements** (2024): Semifinalist at Enterns International Business Case Competition, held by University of Indonesia.