

Ridho Aditya Rachman

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SUMMARY

Fresh graduate in Electrical Engineering from Telkom University with a concentration in Machine Learning and Deep Learning. Passionate about data science, equipped with a strong foundation in machine learning, data analysis, and visualization. Proven ability to spearhead impactful projects, including reducing employee attrition rates significantly and developing automated solutions. Proficient in Python, SQL, and data visualization tools. Eager to apply skills in a dynamic team to tackle challenging data science problems.

EXPERIENCES

Project Based Virtual Intern: Big Data Analyst Kimia Farma x Rakamin Academy Nov 2023 - Des 2023

- Conducted in-depth analysis and extracted insights from sales data at Kimia Farma utilizing **SQL**.
- Designed and implemented dashboards using **Looker Studio** to present sales trends, providing a comprehensive report visually.
- Completed diverse tasks associated with **Big Data Analysis** activities at Kimia Farma, including processing and scheduling large datasets, performing **data analysis**, and managing data warehousing.

IoT Engineer Intern, PT Indotek Buana Karya

Jul 2023 - Sep 2023

- Configured IoT hardware for real-time electric power monitoring.
 - Developed dashboards to **analyze** energy consumption trends.
 - Collaborated in cross-functional teams, highlighting **data-driven decision-making**.
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EDUCATIONS

Telkom University

(2020 – 2024)

Bachelor's Degree of Electrical Engineering

- Concentration: Machine Learning and Deep Learning
 - Relevant Courses: Machine Learning, Statistics, Deep Learning, Artificial Intelligence
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INFORMAL EDUCATION

Data Science Bootcamp - Rakamin Academy

(2023)

- Mastered data science, machine learning, PostgreSQL, and Python for practical career applications.
- Completed the final project: **Predicting Employee Attrition Using Machine Learning**, which reduced the employee attrition rate from **16.1% to 6%** by:
 - Spearheading strategic analysis to identify attrition factors.
 - Evaluating four algorithms (Decision Tree, Random Forest, XGBoost, AdaBoost); achieved the best performance with AdaBoost (**84% Recall, 83% Accuracy on test data**).

TRAINING & CERTIFICATION

- [**Data Science Bootcamp**](#)
Rakamin Academy (2023)
Learn data science fundamental theory, machine learning, PostgreSQL, python and career preparation
 - [**Big Data**](#)
Alibaba Cloud Academy (2024)
 - [**Certificate of Competency - Kimia Farma Big Data Analytics Project Based Internship Program**](#)
Rakamin Academy (2023)
Learn Big Data Analytics, PostgreSQL, SQL, Data Mart, Data Visualization and Looker Studio.
 - [**ASEAN Data Science Explorers 2023 Enablement Session - SAP Analytics Cloud training session**](#)
ASEAN Foundation (2023)
Learn Data Visualization using SAP Analytics Cloud.
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PROJECTS

Predicting Employee Attrition Using Machine Learning - Final Project, Rakamin Academy

- Reduced attrition rates from 16.1% to 6% by analyzing key factors and developing tailored interventions.
- Delivered high-performance models using AdaBoost (84% Recall, 83% Accuracy).

Automatic Parking Gate Prototype with ALPR and YOLOv8

- Achieved 94% accuracy in license plate recognition.
- Integrated MySQL database and automated balance deductions for seamless system operation.

Kimia Farma Sales Dashboard - Big Data Analytics Program

- Analyzed sales data and built dynamic Looker Studio dashboards.
 - Processed large datasets, showcasing data warehousing expertise.
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TECHNICAL CAPABILITIES

- **Programming Language:** Python (Numpy, pandas, Scikit-Learn), SQL, C
 - **Machine Learning:** Classification, Regression, Clustering, YOLO
 - **Database:** PostgreSQL, MySQL
 - **Data Visualization:** Looker Studio, SAP Analytics Cloud
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ORGANIZATION EXPERIENCES

Troopers of Armidale English College, Armidale English Collage

(2019 – Current)

VOLUNTEER EXPERIENCES

- **English Tutor** - Brilliant Learning Center & Armidale English College
- **Supervisor, Donation Team** - AEC Gala Homecoming