

# Mochammad Arie Nugroho

Malang, East Java | +6282387924555 | arienugroho650@gmail.com | www.linkedin.com/in/mocharienugroho |  
https://github.com/arienugroho050396

## PROFILE

Highly motivated Electrical Engineer with a passion for delivering valuable data through analytical functions and data retrieval methods. Skilled in Python, R and SQL for executing data driven solutions to increase efficiency, accuracy and utility of internal data processing. Experienced at creating data regression models, using predictive data modeling, and analyzing data mining algorithms to deliver insight and implement action-oriented solutions to complex business problems.

## EDUCATION

### UNIVERSITY OF BRAWIJAYA

- **Master Degree of Management** Feb 2020 – Present
  - Sub major Strategic Management | GPA : 3.92
- **Bachelor Degree of Electrical Engineering** Aug 2013 – May 2018
  - Sub major Instrumentation Control Engineering. | GPA : 3.06
  - Runner up PLC Industrial Automatic and Robotic Competition (IARC) ITS 2016 competition.
  - Making project Gas Vent Stack Snuffing Unit N2 exhaust safety system automation based on PLC Siemens S7-300.

## INFORMAL EDUCATION

- **Machine Learning with TensorFlow | Google** May 2022 – Present
  - Learn the concepts and applications of AI to solve various problems using Machine Learning, Artificial Intelligence, Deep Learning and Tensorflow.
- **Full Stack Data Analysis | MySkill.id** Mar 2022 – Apr 2022
  - Learn data analysis from basic statistic, SQL Study cases and Python library Numpy, Pandas and Matplotlib
- **Data Science Bootcamp | Dibimbing.id** Oct 2021 – Mar 2022
  - Learning data science field with Python and R, statistic class, machine learning model, SQL query, web dashboard, and business understanding in the data science field. Build final portfolio project and get python coding exercise every week.
- **English for Business | Schoters** Jan 2022 – Feb 2022
  - Learn how to improve English communication skills to deal with real business and career.

## WORK EXPERIENCE

- **ID/X Partners** May 2022 – Jun 2022
  - Data Scientist Intern.
  - Implement various skills and tools used by ID/X Partners such as Big Data Fundamentals, Statistics & Data Analytics, SQL Querying, R Programming, Python Programming, Machine Learning to finish problem and study case.
  - Completing end-to-end Machine Learning modeling to create data science solutions for ID/X Partners clients.
- **PT Mulia Industrindo Tbk.** Jan 2019 – Jun 2019
  - Management Trainee Engineering
  - As a Management Trainee in the Engineering Maintenance Division the main job is implementing continuous improvement projects on ceramic body preparation.
  - Daily work is to supervise the daily checking of tools by technicians and perform preventive maintenance.
  - Participate in project Project Recovery Unsafe Condition for Electrical Part in Plant A
  - Final phase of OJT doing project improvement on PPB Pump nasseti type and updating Work Instructions based on the existing manual book then conducting training for new work instructions.
- **PT Transportasi Gas Indonesia** Oct 2017 – Dec 2017
  - Internship Technician
  - As an internship technician, the daily job is to calibrate Pressure Transmitter and Temperature Transmitter in the Gas Metering Station and get a project to design a Gas Vent Stack security system using Siemens PLC Controller.

## ORGANIZATIONAL EXPERIENCE

- **Himpunan Mahasiswa Pascasarjana FEB UB** Feb 2020 – Jan 2022
  - Secretary of Public Relations Division
  - Become an intermediary between internal organizations and external parties such as outside companies or the government.
  - Main Committee in webinar "Kajian Mahasiswa Pascasarjana 2020, "Webinar Keuangan Level Up 2021", "BREFERENCE 2021"
- **Riset Karya Ilmiah Mahasiswa UB** Mar 2015 – Apr 2018
  - Expert Staff Riset and Development
  - Train junior staff in writing scientific papers and instruct junior staff in PKM KC competitions in the electrical field.
  - Become main committee of "2016 RKIM Training", "2017 RKIM Training", "2016 RKIM CUP".

## PORTFOLIO

- Customer Personality Analysis Unsupervised ML using Python [[Repository](#)] [[Article](#)]
- Red Wine Quality EDA and ML using Python [[Repository](#)] [[Article](#)]
- Wind Energy In Germany EDA using Python [[Repository](#)] [[Article](#)]

- [And many more..](#)

## CERTIFICATION

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- **Google Data Analytics Certificate | Coursera** **Apr 2022 – No Exp**  
*This Certificate dedicate to who have completed eight courses developed by Google, that include hands-on, practice-based assessments and are designed to prepare them for introductory-level roles in Data Analytics. They are competent in tools and platforms including spreadsheets, SQL, Tableau, and R. They know how to prepare, process, analyze, and share data for thoughtful action.*
- **AWS Academy Cloud Foundations | Amazon Web Sevices (AWS)** **Apr 2022 – No Exp**  
*This certification tested based on foundational understanding of cloud computing concepts, independent of specific technical roles. It provides an overview of cloud concepts, AWS core services, security, architecture, pricing, and support.*
- **Enterprise Risk Management | Enterprise Risk Management Academy** **Jul 2020 – Jul 2022**  
*This certification tested against the standards required for Enterprise Risk Management Associate Professional (ERMAP) as defined and certified by the Enterprise Risk Management Academy (ERMA) with the ERMAP professional designation.*
- **Instrumentation Technician Lv 1 | LSP PPT Migas Cepu** **Dec 2019 – Dec 2023**  
*This certification tested based on SKKNI for Upstream – Downstream Oil Gas Industry Sector, General Engineering Sector, Instrumentation Equipment Maintenance Sub-Sector and Calibration Sub-Sector.*

## ADDITIONAL INFORMATION

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- **Technical Skill** : Microsoft Office, Google Analytic, Python, R Programing Language, MySQL, Git, Tableau
- **Soft Skill** : Leadership, Communication Skill, Problem Solver, Analytical Thinking, Teamwork, Creative and Innovative Thinking.
- **Language** : Indonesian, English
- **Hobby** : Badminton, Chess, Photography, Graphic Design, Reading Book, Traveling