Arief Marcellino Ferdiansyah, S.T.

Data Analyst | Data Sciences

Bandung, BT 40553 ♦ +6289674114141 ♦ ninomarcellino16@gmail.com ♦ **WWW:** Bold Profile

Professional Summary

I am Marcellino, a seasoned Quality Assurance Specialist with over three years of experience in pharmaceutical manufacturing, steadfastly committed to ensuring compliance with quality standards through meticulous qualification, validation, change control, environmental monitoring, deviation management, instrument calibration, and internal audits. My contributions have significantly enhanced operational efficiency by implementing robust quality management systems, such as ensuring production environments adhere to GMP standards and mitigating deviation risks through precise analysis. Additionally, I possess advanced skills in data analysis and technology, encompassing Python, Power BI, SQL, and machine learning, which have facilitated initiatives like report automation and predictive analysis for process optimization. Certified in AI Deep Learning and Lean Six Sigma Green Belt, I am poised to contribute as a Data Analyst, QA Engineer, or AI Specialist in the manufacturing sector. Hardworking and passionate job seeker with strong organizational skills eager to secure entry-level data analyst and data science position.

Skills

Data Analysis (PowerBI, SQL)

Python (Pandas, Scikit-learn)

Machine Learning

Internal Auditing

Problem-solving

Supervision and leadership

Work History

Quality Assurance SPF, 02/2022 - Current

PT Damar Gayatri Jaya (Medion Group) – Bandung Barat, Indonesia

1. Executed qualification and validation of equipment and production processes to ensure compliance with pharmaceutical standards, facilitating seamless manufacturing operations.
2. Oversaw change control procedures by preparing and evaluating change documentation, minimizing risks to product quality.
3. Conducted environmental monitoring of production areas, including temperature, humidity, and cleanliness, to maintain conditions in accordance with GMP (Good Manufacturing Practice) standards.
4. Managed process deviations through root cause analysis and corrective actions, ensuring swift and effective resolutions to prevent recurrence.
5. Coordinated periodic calibration of measuring instruments, guaranteeing measurement accuracy to support reliable production outcomes.

6. Led internal audits to assess adherence to standard operating procedures, providing actionable recommendations that enhanced the efficiency of the quality system.
7. As an additional initiative, developed a machine learning model using Python (Scikit-learn) for predictive maintenance, increasing production uptime by 15%.
8. Designed a Power BI dashboard for real-time quality metrics monitoring, reducing QA reporting time by 50% (from 2 days to 4 hours).
9. Performed microbiological data analysis using Python to ensure product compliance with quality standards, achieving a 98% compliance rate.

Freelance Data Analyst, 01/2022 - 12/2023
Self-Employed – Bandung, Indonesia
1. Analyzed sales data for local SMEs in Bandung using Python and Excel, delivering marketing strategy recommendations that boosted revenue by 20%.
2. Developed data visualizations to identify sales trends, enabling clients to make informed, data-driven decisions.

Quality Assurance Intern, 06/2020 - 08/2020
PT Perhutani Pine Chemical Industry – Pemalang
1. Analyzed chemical production processes to ensure compliance with industry standards, supporting quality control for wood-based products.
2. Assisted in quality testing and documentation, contributing to improvements in production workflows.
3. Conducted performance tests under various conditions to assess stability and responsiveness of products.

Lecturer Assistant, 01/2019 - 12/2019
Universitas Ahmad Dahlan, Yogyakarta, Indonesia – Yogyakarta, Indonesia
1. Managed chemical engineering laboratory operations, ensuring compliance with safety and quality standards.
2. Guided students in conducting experiments, fostering a data-driven approach to problem-solving.
3. Evaluated student progress through regular assessments, providing detailed feedback for improvement and growth.

Education

Bachelor of Science: Chemical Engineering, 10/2021
Universitas Ahmad Dahlan - Yogyakarta, Indonesia

- Graduated with CumLaude honors 3.47 GPA
- Relevant Coursework: Process Optimization, Data Analysis, Chemical Process Simulation

Certifications

AI Deep Learning Certification
, 02/2025

Lean Six Sigma Green Belt
, 07/2023

Total Productive Maintenance (TPM)
, 06/2024

Data Science Bootcamp (Coursera)
, 01/2025

Projects

1. Predictive Equipment Failure Model

March 2024 – December 2024

- Developed a machine learning model using Python (Scikit-learn) to predict equipment failures, increasing production uptime by 15%.

2. QA Manufacturing Dashboard

September 2023 – December 2023

- Designed a Power BI dashboard for real-time quality monitoring, reducing QA reporting time by 50%

3. Product Quality Data Analysis

January 2024 – April 2024

- Analyzed quality data with SQL and Python, reducing defect rates by 10% through actionable insights.

4. QA Report Automation Script

June 2023 – August 2023

- Built a Python script to automate QA reports, saving 10 hours of manual work per week.

5. Microbiological Data Analysis

January 2025 – February 2025

- Performed microbiological analysis using Python to ensure product compliance with quality standards at Medion, achieving a 98% compliance rate.

6. Chemical Production Process Analysis (Perhutani)

June 2020 – August 2020

- Analyzed chemical production processes during an internship at Perhutani, identifying 5 potential quality risks that were subsequently addressed.

7. Blockchain Visualization Project

March 2025 – April 2025

- Developed an interactive 2D animation using JavaScript (p5.js) to visualize blockchain processes, including block creation, hashing, and node verification, as part of a self-directed learning initiative in Web3.

References

R.S. Handayani
HR Division - PT Medion

St. Babakan Ciparay no. 282
Bandung
(022) 6030612