

ARYANTO, M.SI

MLOps Architect for Production ML/GenAI | Driving Revenue using Operational Excellence Through AI

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🌐 <https://ai.arydatalabs.workers.dev>

SUMMARY

Results-driven Data Scientist specializing in production-ready ML, GenAI, and MLOps with deep expertise spanning Generative AI, computer vision, predictive analytics, and geospatial modeling. Successfully delivered solutions across automotive, telco, banking, insurance, and e-commerce. Adept at bridging technical execution with business strategy from RAG chatbots and NBO engines to remote sensing classification. Strong background managing 15+ cross-functional teams and delivering data products that drive measurable operational excellence.

WORK EXPERIENCE

Data Science Manager

2022-03 / 2025-12

Merkle - Dentsu Indonesia • Remote

Led a 15-member Data Science and Analyst team, delivering production-grade end-to-end cross-functional AI solutions for automotive, telco, banking, insurance, and e-commerce clients. Engineered Next Best Offer, cross-sell, and upsell models using Learning-to-Rank and TwoTower algorithm. Developed behavioral scoring for revenue growth. Built an LLM-powered RAG chatbot with Gemini and DialogFlow on GCP. Optimized customer data platforms into Gold Layer datasets on BigQuery. Designed MTA models in Looker for customer journey insights. Mentored team members and drove strategic analytics initiatives for business partners.

Sr. Data Scientist

2019-11 / 2022-03

Sinarماس Asia Pulp and Paper • Jakarta

Advanced from Data Scientist to Senior Data Scientist almost 3 years, leading AI initiatives across forestry, supply chain, and marketing. Spearheaded deep learning for remote sensing e.g. tree recognition, flood detection, weed classification, plant health monitoring, and blank-spot identification, delivering operational intelligence for large-scale plantation management. Engineered ML and optimization models for ROI estimation, user targeting, community macro-control, and sales forecasting. Drove consumer behavior analytics and experimental analysis to refine product and recommendation strategies. Managed end-to-end ETL pipelines, feature engineering, and hyperparameter tuning using Python, R, Spark, and SQL, while upgrading legacy systems into production-grade mobile apps and dashboards.



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Case Study ↗
[personal blogs](#)

SKILLS

Python

Julia

Data Pipeline

Actuarial

Looker

Node.js

Data Analysis

RAG

Gen AI

AI system

Recommendation model

Computer Vision

PROJECTS

CoopReCsys

April 2026

<https://git.new/CoopRecSys>

Production ML/AI module for cooperative product recommendations using collaborative filtering and LTR. Features Cython-optimized algorithms, explainable AI dashboard, and MLflow tracking for production deployment.

Resume Fabrication

July 2026

<https://arymemoir.pages.dev>

Personalized CV and cover letter generator powered by Google Sheets or SQLite. Maintains single source of truth, automatically tailors documents to job descriptions, and exports ATS-friendly PDFs. Enables faster, more consistent applications at scale.

WORK EXPERIENCE (CONT.)

Data Scientist 2019-07 / 2019-11
GSMA International • Remote
Managed end-to-end survey data for a GSMA electrification project in Sumba. Deployed ODK forms, validated and cleaned incoming data. Performed statistical analysis, built visualizations, and engineered predictive features. Applied machine learning to model household income and expenditure. Delivered clear insights and reports to researchers and program stakeholders.

Data Analyst 2017-06 / 2019-07
Electric Vine Industries • Jakarta
Designed and maintained large-scale MySQL databases, ensuring data accuracy and analytical readiness for enterprise decision-making. Built interactive dashboards using Power BI and Looker Studio for real-time monitoring and KPI reporting. Analyzed customer behavior patterns through Tableau and Excel, extracting actionable insights that shaped marketing and product strategies. Developed both predictive and descriptive machine learning models in Python and R, tailored specifically to survey-based assessment needs. Presented complex findings to cross-functional stakeholders, translating data into clear business recommendations. Automated manual reporting workflows, significantly reducing turnaround time, and published professional technical documentation using LaTeX to ensure knowledge consistency across teams.

Data Analyst 2016-07 / 2017-06
Bolttech.io (formerly, Amtrust Mobile Solution) • Jakarta
Applied sampling, causal analysis, and time series modeling to mine CRM data at an insurance tech firm. Analyzed customer behavior to optimize product development and marketing. Produced Daily, Weekly, Monthly, and Annual KPI reports. Used Python and R to deliver data-driven recommendations that streamlined claims, improved customer satisfaction, and accelerated decision-making.

Data Analyst 2015-08 / 2016-07
PT LAPI ITB • Bandung
Built predictive models for Chevron's soil remediation, estimating excavation volumes and identifying high-risk TPH zones. Validated against field data and implemented simulation tools, reducing over-excavation costs and ensuring regulatory compliance.

EDUCATION

Master of Science 2014-08 / 2016-06
Bandung Institute of Technology, Indonesia

CERTIFICATION

Exam A70: Modeling and Risk Theory Jan 2017
Society of Actuaries of Indonesia ↗
Credential ID: 1904/KP/PAI/I/2017 | Core Competencies: Statistical Modeling, Risk Assessment

Exam A50: Statistical Methods Jan 2017
Society of Actuaries of Indonesia ↗
Credential ID: 1904/KP/PAI/I/2017 | Core Competencies: Statistical Modeling

Exam A20: Probability and Statistics Jan 2017
Society of Actuaries of Indonesia ↗
Credential ID: 1904/KP/PAI/I/2017 | Core Competencies: Data Science, Statistical Modeling, Quantitative Analysis

Exam A60: Actuarial Mathematics Oct 2015
Society of Actuaries of Indonesia ↗
Credential ID: 1270/KP/PAI/X/2015 | Core Competencies: Actuarial Science, Statistical Modeling

LANGUAGES

English Proficient

Indonesia Native

RECOMMENDATION

Valantino A. Sutomo ↗ Jan 2026
Sr. Data Scientist @ Maybank
Exceptional manager and mentor who drove 10-20% effectiveness gains through ML/AI and data-driven leadership.

Arshad Rahman ↗ Dec 2024
Co-Founder @ Pranas
Recruited as early data science hire. Impressed by his work, found him kind-hearted, determined, and highly trustworthy.