

Ihsan Fermantono

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PROFILE SUMMARY

Business process improvement-oriented engineering graduate with strong capabilities in **data analysis, business process improvement, and performance gap identification**. Experienced in supporting **continuous improvement initiatives (PDCA cycle)**, analyzing operational workflows, and delivering **data-driven insights to improve business performance**. Proven ability to collaborate across functions, monitor implementation, and ensure alignment of strategic initiatives. Detail-oriented, analytical, and proactive with strong interest in **management improvement and operational excellence**.

ACHIEVEMENT AND PUBLICATIONS

1st Place Winner Asia Pacific Region by SEG Challenge Bowl 🔗	October 2022
3rd Place Winner of Design Survey Exploration Oil and Gas by UPNV Yogyakarta 🔗	November 2023
2nd Runner Up of Design Survey Competition Geothermal by Univ. Pertamina 🔗	November 2022
Publication Paper IOP SEACG (South East Asian Conference on Geophysics) ITB 🔗	August 2023
Research and Publication: Presented findings at the SEACG conference, leading to recognition for contributing valuable insights into regional geophysical characteristics. The paper was well-received, with over 100 attendees engaging in discussions about the study's implications.	
Finalist IPFEST 2023 Smart Competition by FTTM ITB, SPE and IATMI ITB 🔗	February 2023
Finalist Boreyes 2023 Smart Competition by SPE Universitas Padjajaran 🔗	May 2023
Finalist IPFEST 2024 Smart Competition by FTTM ITB, SPE and IATMI ITB 🔗	February 2024
Finalist Petroleague 2022 Smart Competition by SPE ITS SC 🔗	December 2022

PROFESSIONAL EXPERIENCE

Spatial Analyst and Field Supervisor at Badan Pusat Statistik	August 2025 – Present
<ul style="list-style-type: none">Managed and validated 400+ survey data records, ensuring data accuracy and consistencyConducted field verification (40 key samples) and resolved data discrepancies, improving data reliabilitySupervised field operations across 1 sub-district and 2 villages, managing enumerators to ensure SOP compliance and timely reportingDeveloped and managed WebGIS for 1 regency, improving data tracking, accessibility, and reporting efficiencyEnsured data readiness to support decision-making and program evaluation	
Operational Excellence Intern at PT. Medco Energi Internasional	November 2024 – May 2025
<ul style="list-style-type: none">Developed and implemented 4 digital solutions from operational data analysis, improving efficiency standards across 5 sites; selected as company-wide best practiceApplied continuous improvement framework (PDCA) to evaluate, implement, and monitor operational improvement initiativesDesigned and co-authored the OE Guideline and Book of Knowledge, adopted by 10+ departments as a continuous improvement referenceIdentified performance gaps and inefficiencies through review of 8 audit reports, delivering cost-effective recommendations acknowledged by managementFacilitated 15+ cross-functional meetings and delivered 12 monthly operational reports, supporting performance monitoring and decision-makingManaged SharePoint platform (200+ documents), improving collaboration efficiency for 50+ users	
Internship at Badan Pusat Statistik, Mojokerto	January-April 2024
<ul style="list-style-type: none">Managed and processed 10,000+ data records, ensuring data accuracy and validation for national and regional reportingDeveloped and deployed WebGIS platform (200+ datasets), enhancing data accessibility for stakeholdersProduced 20+ analytical reports and performed large-scale data analysis to support planning and decision-making	

Study Independent at Bangkit Academy By GoTo and Traveloka

August-December 2023

- Led **capstone project team (4 members)** to develop **data-driven application**, integrating **machine learning model**
- Developed and deployed **REST API**, improving **data processing efficiency and system accessibility**
- Completed **Google Data Analytics & Machine Learning certifications**, applying **data analysis and predictive modeling**

Geophysicist Practical Work at PT. Medco Energi Internasional

September-October 2023

- Processed **well log datasets** and conducted **well-seismic tie (0.7 correlation)**, improving **subsurface interpretation accuracy**
- Performed **3D seismic processing** to enhance **data quality and imaging clarity**
- Developed **seismic attribute models** and generated **structural maps (10 sq km)** to support **reservoir characterization**

EDUCATION

Institut Teknologi Sepuluh Nopember (ITS)

Surabaya, Indonesia

Bachelor of Geophysical Engineering

August 2020-September 2024

GPA : 3.43/4.00

ORGANIZATIONAL AND COMMITTEE EXPERIENCE

HMTG (Himpunan Mahasiswa Teknik Geofisika) ITS

February 2022 – December 2023

Professional Expert Staff (2022&2023)

- Supported the Professional & Scientific Affairs division in designing and delivering academic and professional skill development programs, including geophysics software workshops and competition preparation sessions.
- Developed learning modules and technical materials used by over 50 active members.
- Coordinated with lecturers, alumni, and industry professionals to deliver events aligned with energy and geoscience industry needs.

TECHNICAL EXPERTISE

- Business Process Analysis & Gap Identification
- Continuous Improvement (PDCA) & Process Optimization
- Data Analysis & Decision Making (Excel, Power BI)
- KPI Monitoring & Performance Evaluation
- Problem Solving & Root Cause Analysis
- Cross-Functional Coordination
- Data Management & Reporting

LICENSE AND CERTIFICATIONS

Petrophysics Training

May 2022 2023

- **Hands-On Training:** Completed intensive petrophysics training led by industry experts, covering advanced reservoir evaluation techniques.
- **Data Interpretation:** Applied training to analyze 5 wells, improving data interpretation accuracy by 30%.
- **Reservoir Characterization:** Enhanced reservoir characterization techniques, increasing model accuracy by 20% through advanced core-log integration and rock typing methods.

Bangkit Academy Machine Learning Cohort

August – December 2023

- Machine Learning by DeepLearning.AI [🔗](#)
- Mathematics for ML and Data Science [🔗](#)
- TensorFlow: Data and Deployment [🔗](#)
- Supervised ML: Regression and Classification [🔗](#)
- Unsupervised Learning, Recommenders, Reinforcement Learning [🔗](#)
- Structuring Machine Learning Projects [🔗](#)
- Natural Language Processing in TensorFlow [🔗](#)
- Convolutional Neural Networks in TensorFlow [🔗](#)

English Certificate

Toefl ITP : **533** [🔗](#)

February 2026

EF SET 90 Minutes Score : **73** [🔗](#)

December 2025