

Yusuf Surya

Senior Data Scientist with 7 Years of Experience in Data Strategy, Advanced Analytics, and Machine Learning Models

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Education

Carnegie Mellon University, Heinz College

Master of Public Policy and Management – Data Analytics (Expected 05/2025)

Bandung Institute of Technology

Bachelor of Engineering (07/2017)

Work Experience

Data Strategy & Analytics Specialist

Ministry of Finance Republic of Indonesia – Indonesia (2019 – Present)

- Designed and implemented data architecture and pipelines to support advanced analytics and machine learning models, ensuring seamless integration of diverse data sources.
- Developed and maintained performance metrics dashboards to monitor data quality, integrity, and security, enabling data-driven decision-making across the organization.
- Led data governance initiatives, establishing frameworks for data management and compliance, resulting in improved data accuracy and audit readiness.
- Spearheaded data-driven innovations by creating algorithms to analyze the impact of data improvements on central government financial reports, successfully persuading auditors of compliance and accuracy.
- Designed and implemented asset management systems aligned with current policies, significantly reducing bureaucracy and enhancing operational efficiency based on user feedback.
- Initiated and led the formulation of data-driven policies by conducting surveys on stakeholders across multiple countries, contributing to optimized asset management processes.
- Achieved over 100% increase in customer engagement within 1 year through strategic initiatives and effective communication channels.

Business & Data Analyst

Markplus Inc – Indonesia (2017 – 2019)

- Designed and executed market research projects, leveraging advanced analytics to provide actionable insights on brand activation, customer experience, and pipeline optimization.
 - Conducted in-depth interviews and data analysis to identify improvement opportunities, delivering recommendations that enhanced customer satisfaction and business growth.
 - Presented research findings and data visualizations to clients, effectively communicating insights and strategies to drive decision-making and improve performance metrics.
 - Coordinated project execution, including participant recruitment, data collection, and analysis, ensuring timely delivery of high-quality results.
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Skills

Technical Skills: Data Strategy, Data Architecture, Data Pipelines, Advanced Analytics, Machine Learning Models, Data Visualization, Data Governance, Data Quality, Data Integrity, Data Security, Performance Metrics, Data-Driven Innovations, Python (Pandas, Flask, Selenium, Matplotlib), SQL (Oracle, MySQL, SQLite, PostgreSQL), Data Modeling, Data Management, Web APIs, Web Scraping, HTML, JavaScript, Regression Analysis, Statistics, Econometrics, Applied Economics Analysis, Decision & Risk Modeling, Optimization, Evidence-based Policy Making

Soft Skills: Project Management, Stakeholder Coordination, Strategic Communication, Problem-Solving, Leadership, Team Collaboration, Client Engagement, Presentation Skills, Analytical Thinking, Policy Formulation, Survey Design and Implementation, Customer Experience Enhancement