

Muhammad Burhanuddin Irsyad

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SUMMARY



Result-oriented and analytically driven Data Science student with hands-on experience in building clean ETL pipelines, analysis-ready datasets, and decision-support dashboards using Python, SQL, Power BI, and Tableau. Proven ability to transform multi-source data into accurate, secure, and scalable workflows that support analytics, machine learning, and strategic business insights across public-sector, startup, and enterprise environments. Strong in data validation, governance, and end-to-end analytical processes, with the capability to communicate insights effectively to both technical and non-technical stakeholders. Equipped with a solid foundation in product development, business strategy, and cross-functional collaboration, and highly motivated to solve complex, real-world problems through data-driven approaches.

EDUCATION

Brawijaya University

Data Science

Malang, Indonesia

Aug 2023 – Present

- Cumulative GPA: 3,60/4,00

- Relevant Coursework: Software Engineering, Database Systems, Machine Learning, Big Data Analytics, Optimization Research, Data Mining, Data Analysis, Data Science, Data Visualization.

SKILLS & COMPETENCIES

Machine Learning & Statistics

: Predictive Modeling, Classification Analysis, Clustering Algorithms, Model Validation, Deep Learning Frameworks, Model Validation, Statistical Analysis, Experimentation & Evaluation.

Data Engineering & ETL

: ETL Processes, Web Scraping, Data Wrangling & Cleaning, Database Management, Integrating Multiple Data Sources, Schema Design, Data Quality Monitoring.

Data Analysis & Visualization

: Exploratory Data Analysis (EDA), Business Intelligence, Dashboard Development, Data Validation, Statistical Analysis, Customer Segmentation, Trend Forecasting.

Programming Languages & Libraries

: Python, R, SQL, Pandas, NumPy, SciPy, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn, Plotly, Selenium, BeautifulSoup, Requests, SQLAlchemy, Flask, Streamlit, Dash, Joblib, Pickle.

Tools & Platforms

: VSCode, Jupyter Notebook, Google Colab, Hadoop, PostgreSQL, MySQL, Tableau, Power BI, Google Sheets, Canva, Microsoft Office 365.

Soft Skills

: Leadership, Analytical Thinking, Teamwork, Communication, Problem Solving, Adaptability, Negotiation, Global Mindset, Creativity, Resourcefulness.

INTERN EXPERIENCES

Pertamina (Persero)

Data Analyst

Central Jakarta, Indonesia

Dec 2025 – Feb 2026

- Performed data validation, consistency checks, and exploratory analysis on consolidated financial reporting datasets across holding and subsidiary entities to ensure accuracy and analytical readiness.
- Conducted cross-entity and cross-period data analysis, including classification and verification of corporate financial attributes using multiple internal and external reference sources.
- Processed and transformed structured planning and reporting data from enterprise systems (Anaplan) into analytical outputs supporting financial reconciliation and management reporting.
- Identified data inconsistencies and anomalies within financial reporting datasets and translated validated findings into clear analytical summaries and presentation-ready insights for internal stakeholders.

Badan Pusat Statistik (BPS)

Data Analyst and Surveyor

Malang, Indonesia

Jun 2025 – Jul 2025

- Managed end-to-end field data capture for 100+ MSMEs in Kidul Dalem, Malang City through structured interviews and SW Maps geotagging, ensuring spatially accurate, complete business profiles and analysis-ready survey metadata.
- Engineered and integrated a centralized MSME promotional and data platform featuring a digital catalog of 50+ potential businesses, informative infographics and videographics, and an interactive dashboard linked to the official Kidul Dalem website; co-designed and facilitated training sessions on digitalization, branding, and online marketing.
- Collaborated with BPS field officers and village officials to validate and verify microbusiness data, minimizing duplication and ensuring consistency with the Satu Data Indonesia standard.

Monev Studio Global

Data Engineer

(Remote) Central Jakarta, Indonesia

Jan 2025 – Mar 2025

- Engineered Python-based web-scraping utilities to extract records from the Lentera Hijau web application, improving access to critical beneficiary data for downstream verification.

- Collaborated with technical and field teams to monitor data accuracy and reliability for a 65,000-household survey across 12 provinces in the Indonesian Green & Affordable Housing Program.
- Implemented data-quality controls by designing validation rules, flagging inconsistencies, and enforcing data-integrity checks in line with project standards.
- Enhanced the overall efficiency of the data pipeline by identifying process-improvement opportunities and streamlining data-verification workflows.

Temu Dataku

Data Science Curriculum Development

Malang, Indonesia

Oct 2024 – Jan 2025

- Designed and delivered up-to-date data science curriculum tailored to client and learner needs
- Developed project-based modules in Python, data analysis, machine learning, and visualization from beginner to intermediate levels.
- Produced comprehensive learning materials including slide decks, hands-on exercises, and assessments for both live sessions and self-paced learning

Sinergi Inovasi Tekno

Public Relations

(Remote) South Jakarta, Indonesia

Aug 2024 – Oct 2024

- Established strong relationships and negotiated partnerships with media partners to enhance the company's brand exposure
- Supported event execution processes, from initial planning to on-site implementation
- Authored strategic partnership proposals with external stakeholders to drive business growth and visibility

Hidata Teknologi Digital

Business Development

(Remote) Surabaya, Indonesia

Feb 2024 – May 2024

- Researched and compiled high-potential client datasets to power targeted outbound campaigns, expanding a qualified sales pipeline.
- Engaged prospects to surface needs and mapped them to appropriate digital solutions.

ORGANIZATIONAL EXPERIENCES

National Statistics Challenge UB

Deputy Event Coordinator

Malang, Indonesia

Apr 2024 – Nov 2024

- Coordinated cross-functional event teams to ensure smooth execution across all phases of the competition
- Liaised with participants, judges, and stakeholders to align technical, logistical, and scheduling requirements
- Contributed to event planning, timeline management, and real-time problem solving to ensure a high-quality participant experience

Teman Ambiss

Product Management

Malang, Indonesia

Mar 2024 – Jun 2024

- Led product research and competitive analysis to identify market gaps and user needs
- Developed product mockups and defined feature requirements to guide development
- Managed pricing strategy, vendor sourcing, and procurement to optimize product profitability
- Operated and managed online sales channels, including order fulfillment, inventory tracking, and customer service

VOLUNTEER EXPERIENCES

ASEAN Youth Organization

Global Study Fair Delegates

North Jakarta, Indonesia

Sept 2024 – Oct 2024

- Attended global sessions with top universities from Europe, America, and Asia on education equity, global citizenship, and innovation aligned with ASEAN Youth Organization's mission.
- Engaged in interactive sessions with international university leaders to explore emerging global competencies and digital transformation in higher education.

Young on Top Malang

Green Movement Volunteer

Malang, Indonesia

Feb 2024 – Mar 2024

- Actively participated in regular plogging sessions, combining jogging with litter collection to promote a cleaner environment
- Managed a data-driven zero-waste initiative promoting anti-plastic behavior and community upcycling projects at Car Free Day (CFD) Malang

HONOR & AWARDS

- Recipient of Indonesia Cyber Education Institute 2024 and 2025
- Bronze Medalist at Sustainable Innovations Essay Competition (SINEC) Aug 2025
- Recipient of Digital Talent Scholarship (DTS) | KOMDIGI Des 2024
- Silver Medalist at the Indonesia International IoT Olympiad (I3O) Jun 2024

