

# 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*

- **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.

Malang, Indonesia  
Aug 2023 – Present

## 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*

- 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.

Central Jakarta, Indonesia  
Dec 2025 – Feb 2026

**Badan Pusat Statistik (BPS)**  
*Data Analyst and Surveyor*

- 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.

Malang, Indonesia  
Jun 2025 – Jul 2025

**Monev Studio Global**  
*Data Engineer*

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

(Remote) Central Jakarta, Indonesia  
Jan 2025 – Mar 2025

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

