

BILIARTO SASTRO CEMERSON

Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta

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Statistics graduate with a strong analytical foundation and hands-on experience in the end-to-end data science lifecycle. Proven expertise in **predictive modeling**, **NLP**, and **deep learning**, backed by success in national-level data science competitions and data analytics. Skilled in transforming complex datasets into actionable insights using **Python**, **R**, and **SQL** to drive data-driven decision-making.

EDUCATION

Bachelor of Science in Statistics | Yogyakarta State University

2021 - 2025

- GPA, 3.65/4.00 ([credits](#))
 - Actively led and contributed to multiple data analysis projects and competitions.
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EXPERIENCE

Data Annotator & AI Reviewer

Simplifa.AI | Yogyakarta, Indonesia

Aug 2025 - Present

- Validate **1.000+** pages bank mutation data extraction from **20+** different bank formats with **99% accuracy**.
- Labeling **5.000+** financial data using Argila and Huggingface for AI model training optimization.

Data Analyst Intern

Rumah Sakit Pratama Kota Yogyakarta | Yogyakarta, Indonesia

Jul - Aug 2023

- Analyzed medical records of **500+** COVID-19 patients, uncovering symptom patterns and risk factors.
 - Built classification models (**Binary Logistic Regression**) to predict COVID-19 severity, improving understanding of clinical risk (F1-Score up to **60%**).
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PROJECTS

Cryptocurrency Price Forecasting using Hybrid Deep Learning ([link](#))

Jan - Apr 2025

- Developed and optimized hybrid architectures (**CNN-LSTM/Bi-LSTM**) using **Optuna** to forecast Bitcoin prices across Bear and Bull market regimes.
- Achieved high-precision forecasting with a **MAPE of 1.77%** using a 7-day rolling window approach to capture rapid market volatility.

Social Network Analysis (SNA) of the 2024 Presidential Campaign ([link](#))

Jun - Aug 2024

- Ranked **22nd out of 364 teams** in the national Big Data Challenge (BDC) Satria Data 2024 by mapping public perception using **IndoBERT**.
 - Implemented **Graph Neural Networks (GNN)** and the **Louvain Algorithm** to identify key influencers and detect community clusters in complex social networks.
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CERTIFICATION

Databases and SQL for Data Science with Python – IBM ([cert](#))

Jun 2025

SQL for Data Science – University of California, Davis ([cert](#))

Apr 2025

Deep Learning Spezalization - DeepLearning.AI ([cert](#))

Feb 2025

HONORS AND AWARDS

2nd Winner - DATAVERS ANAVA UGM 2025 ([cert](#))

Jan – Feb 2025

Top 10 Paper - International Paper Competition (IPC) by SEA 2024 ([cert](#))

Oct – Nov 2024

Finalist (Top 12) - Big Data Challenge (BDC) Satria Data 2024 ([cert](#))

Jun – Aug 2024

3rd Winner - Olimpiade Nasional Statistika (ONS) ANAVA UGM 2024 ([cert](#))

Jan – Feb 2024

Finalist (Top 5) - Turnamen Sains Data Nasional (TSDN) 2023 ([cert](#))

Oct – Dec 2023

ADDITIONAL INFORMATION

Skills: Statistical Data Analysis, Machine Learning, Deep Learning, Natural Language Processing (NLP), Time Series Forecasting.

Tools: Python, R, SQL, Looker Studio, PyTorch, TensorFlow, Scikit-learn, Optuna, HuggingFace, LangChain, Streamlit, Git/GitHub, AWS (S3, Glue ETL).

Languages: Indonesian (Native), English (Intermediate).