



WILLIAM SAPUTRA HARYONO

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SUMMARY

Mathematics graduate from Sanata Dharma University with a strong foundation in Bayesian Statistics and Sampling Theory. Passionate about data analysis, quantitative research, and applying statistics to support data-driven decision-making. Eager to contribute to roles in data analytics, data science, research and statistical consulting.

EXPERIENCE

Teaching Assistant

Feb 2023 - Sep 2024

- Provided tutoring sessions once per week for 1 - 1.5 hours for students who required assistance with Calculus, Statistics, and Linear Algebra.

Volunteering, Mathematics Student Association

Nov 2021 - Nov 2023

- implementing and supervising association programs such as club and social gatherings.
- Achieved an event score of 4.6/5 from participating students and club activities were successfully carried out to completion.

PROJECTS

INWISE : IHSG Navigation & Visual Intelligence System Engine

Jun 2025 - Jul 2025

Sanata Dharma University

- Forecasting system designed to provide real-time prediction into the Indonesian Stock Exchange Composite Index (IHSG).
- Combines quantitative machine learning models with the reasoning capabilities of Large Language Models (LLMs) to bridge data with analysis.

AWARDS

Airlangga University - Surabaya, Indonesia

Sep 2023 - Oct 2023

Finalist of Data Science Competition, Data Quest Airnology 2.0

- Develop machine learning models for forecasting rainfall at IKN
- Time series analysis such as Trend and Seasonal behavior in data
- Feature engineering in data set using "Lag" to ensure the models are able to read "backwards" Using models such as XGBoost and LGBM for prediction
- Achieved an RMSE of 0.81769

IPB University - Bogor, Indonesia

May 2023

2nd Place in Data Science Competition, GAMMAFEST 2023

- Develop machine learning models for predicting the suitability household drinking water
 - Handling Imbalanced data using using technique such as SMOTE
 - Statistical analysis using boxplot to detect outlier Data Cleaning and Preprocessing using Python
 - Removing "Noise" from data by manual analysis Using models such as XGBoost for prediction
- Achieved an f1 score of 0.98239

EDUCATION

Sanata Dharma University

Aug 2021 - Jul 2025

Bachelor, Mathematics, GPA 3.85/4.00

- Thesis on "Application of Bayesian Statistics in Estimating Percentage of Vote 2024 Presidential Election".
- Relevant Course : Machine Learning, Statistics Method, Mathematics Statistics, Probability Theory, Sampling Theory, Stochastics Process, Applied Multivariate Statistics.

SKILLS

- **Languages:** English, Indonesian.
- **Technical Skills :** Python, R, SQL, Excel, Statistical Analysis, Calculus, Teaching