

WAHYU SURYANINGRAT

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Tasikmalaya, Jawa Barat, 46417

Data Science Consultant with a **master's in mathematics** and **4 years' experience** in risk modelling and advanced analytics for top Indonesian banks. I am passionate about mathematical modeling, teaching, and research, with strong skills in machine learning, big data processing, and the development of automated modeling tools to generate actionable business insights.

WORK EXPERIENCE

idx partners, Jakarta

Jun 2021 – Aug 2025

Data Scientist Consultant

- Analysed and processed large-scale financial dataset, including data cleansing, feature engineering, and advanced analytics for model development.
- Developed and deployed robust credit scoring and income proxy models for top 5 Indonesian banks using advanced machine learning techniques and diverse data sources (internal and external).
- Built and automated end-to-end modelling tools—including variable selection, model deployment, and API-based scoring systems—which reduced modelling time by up to 60% and streamlined credit risk processes.

Institut Teknologi Sumatera (ITERA), Lampung

Feb 2024 – Nov 2024

Adjunct Lecturer & Guest Speaker

- Taught Numerical Methods and Elementary Linear Algebra focusing on applications in data analytics.
- Delivered a guest lecture engaging 100+ students in interactive sessions.

Zenius Education, Jakarta

May 2021 – Jan 2022

Quality Control

- Evaluated the quality of learning modules to ensure they met educational standards and consistency.
- Coordinated with content creators and subject matter experts to improve module content.

Universitas Padjadjaran, Sumedang

Jan 2018 – Apr 2021

Research & Laboratory Assistant

- Supported research on mathematical modelling and epidemiology, including simulation and data analysis.
- Presented research findings at conferences and contributed to academic publications.
- Assisted in teaching for courses such as Linear Algebra, Programming, Numerical Methods, and more.

EDUCATION

- **Universitas Padjadjaran, Sumedang**

Nov 2019 – Feb 2021

Master of Mathematics | GPA 4.00/4.00, Honors: Very Satisfactory | Mathematical Modeling
Infectious Disease Epidemiology

- **Universitas Padjadjaran, Sumedang**

Jul 2016 – Jan 2020

Bachelor of Mathematics | GPA 3.56/4.00, Honors: Excellent | Mathematical Modeling
Infectious Disease Epidemiologi

HONOR AWARDS

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| • 1st Place in the Mathematics Modelling Competition MCF, Institut Teknologi Bandung | 2019 |
| • 1st Place in the Scientific Paper Competition, Mathematics Profession Day, Universitas Padjadjaran | 2019 |
| • 1st Place in the Scientific Paper Competition, MIPA Academic Competition, Universitas Padjadjaran | 2019 |
| • 3rd Runner Up in The Most Outstanding Student, Bachelor of Mathematics, Universitas Padjadjaran | 2019 |
| • Finalist in 3D Data Conquest, International Data Science Competition, CIMB Niaga | 2018 |

LANGUAGES AND SKILLS

- Language: Bahasa Indonesia (Native), English (Professional Working Proficiency)
- Programming: R-Language, Python, SQL Queries, MATLAB, Maple, Scilab.
- Soft skills: Strong Leadership & Communication, critical thinking, problem solving, and analytics.

REFERENCES

- Prof. Dr. Nursanti Anggriani, M.Si | Prof. at Department of Mathematics Unpad | nursanti.anggriani@unpad.ac.id
- Ahmad Husain Abdullah | Project Manager, idx/partners | ahmad.abdullah@idxpartners.com
- Yulwanto | Project Manager, idx/partners | yulwanto@idxpartners.com

PUBLICATIONS

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|---|-------------|
| • Dynamical Analysis and Optimal Control in Zika Disease Transmission Considering Symptomatic and Asymptomatic Classes. <i>Engineering Letters</i> | 2023 |
| • A mathematical COVID-19 model considering asymptomatic and symptomatic classes with waning immunity. <i>Alexandria Engineering Journal</i> | 2022 |
| • Mathematical analysis and numerical simulation of spatial-temporal model for rice tungro disease spread. <i>Communications in Mathematical Biology and Neuroscience</i> | 2022 |
| • Polynomial Interpolation and Cubic Spline to Determine Approximate Function of COVID-19 Tweet Dataset. <i>IAENG International Journal of Applied Mathematics</i> | 2022 |
| • On application of differential transformation method to solve host-vector-predator system. <i>Journal of Physics: Conference Series</i> | 2021 |
| • Posted prediction in social media base on markov chain model: twitter dataset with covid-19 trends. <i>Journal of Physics: Conference Series</i> | 2021 |
| • Order Runge-Kutta with extended formulation for solving ordinary differential equations. <i>International Journal of Global Operations Research</i> | 2020 |
| • The optimal control of rice tungro disease with insecticide and biological agent. <i>AIP Conference Proceedings</i> | 2020 |

CERTIFICATES

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| • Machine Learning with Tensorflow-Google organized by Professional Academy Digital Talent Scholarship | 2022 |
| • Data Scientist - Professional Academy (PRO22-DSQB1) organized by Professional Academy Digital Talent Scholarship | 2022 |
| • Introduction to Data Science with R and Python organized by DQLab | 2020 |
| • R & Python Fundamental to Data Science organized by DQLab | 2020 |
| • Statistic using R & Python organized by DQLab | 2020 |
| • Database Design & Programming with SQL organized by Oracle Academy | 2020 |

CONFERENCE

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| • The 10th International Conference and Workshop on High Dimensional Data Analysis (ICW-HDDA-X) organized by Universitas Padjadjaran. | 2020 |
| • International Symposium on BioMathematics organized by Institut Teknologi Bandung. | 2019 |

ORGANIZATIONS

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| • Presidium I & Majelis Syuro at Kajian Al-Islam Matematika Himatika FMIPA Universitas Padjadjaran. | 2019 |
| • Chairman of Gamma Committee at MPA Himatika FMIPA Universitas Padjadjaran. | 2018 |
| • Member of Committee Majelis Tetap Kongres XVII MIPA Universitas Padjadjaran. | 2017 |