

## 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

**id/x 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

- 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, Shiny, SQL Queries, MATLAB, Maple, Scilab, HTML, CSS, Javascript.
- Soft skills: Strong Leadership & Communication, critical thinking, problem solving, and analytics.

### PUBLICATIONS

- Dynamical Analysis and Optimal Control in Zika Disease Transmission Considering Symptomatic and Asymptomatic Classes. *Engineering Letters* **2023**
- A mathematical COVID-19 model considering asymptomatic and symptomatic classes with waning immunity. *Alexandria Engineering Journal* **2022**
- Mathematical analysis and numerical simulation of spatial-temporal model for rice tungro disease spread. *Communications in Mathematical Biology and Neuroscience* **2022**
- Polynomial Interpolation and Cubic Spline to Determine Approximate Function of COVID-19 Tweet Dataset. **2022**

- On application of differential transformation method to solve host-vector-predator system. *Journal of Physics: Conference Series* **2021**
- Posted prediction in social media base on markov chain model: twitter dataset with covid-19 trends. *Journal of Physics: Conference Series* **2021**
- Order Runge-Kutta with extended formulation for solving ordinary differential equations. *International Journal of Global Operations Research* **2020**
- The optimal control of rice tungro disease with insecticide and biological agent. *AIP Conference Proceedings* **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**