Deri Siswara

+62 813-8454-8488 | Bogor, ID | derisiswarads@gmail.com | linkedin.com/in/derisiswara | derisiswara.org

PROFESSIONAL SUMMARY

Research/Data Analyst with a background in Statistics and Economics. Experienced in survey design, creating dashboards, impact assessment, econometric modeling, and teaching. Worked on various projects across multiple sectors, bringing unique and diverse perspectives to problem-solving.

PROJECTS

Non-Cash Social Assistance Monitoring Survey 2025   May 2025 — Oct 2025
Researcher   *Bank Indonesia*

- Developed technical guidelines for implementing the Non-Cash Social Assistance Monitoring Survey 2025
- Created data entry tools for survey result collection
- Prepared technical coordination materials for Bank Indonesia's Domestic Representative Offices
- Conducted data processing and analysis of the monitoring survey results

Implementation Study of Food Safety in APEC Regions   May 2025 — July 2025
Consultant/Data Analyst   *APEC Project: SCSC_102_2024T*

- Analyzed survey data on food safety management systems for street vendors and small businesses in APEC regions
- Presented findings at a stakeholder workshop in Bali, Indonesia (July 22-23, 2025)

Outlier Detection Study in Banking Report Data   Jun 2024 — Mar 2025
Consultant/Data Analyst   *Bank Indonesia*

- Researched and implemented various statistical methods for outlier detection in daily and monthly banking report data
- Identified optimal outlier detection methods and thresholds for improving the accuracy of financial reporting systems
- Conducted knowledge sharing sessions

Socio-Economic Impact Analysis of Subsidized Fuel Restrictions   Feb 2024 — Aug 2024
Consultant/Data Analyst   *PT Pertamina (Persero)*

- Focused on assessing the socio-economic impacts of subsidized fuel restrictions, including effects on poverty, unemployment, inflation, and economic growth
- Applied econometric methods, data analysis, microeconomics principles, and market research techniques

Food Price Analysis   May 2023 — Nov 2023
Consultant/Data Analyst   *KPPU*

- Analyzed the price transmission mechanism of 10 selected commodities using Nonlinear Autoregressive Distributed Lag (NARDL) models

In House Training (IHT)   Oct 2022
Trainer   *Bank Indonesia Institute (BINS)*

- Conducted training on statistics and econometrics tools, covering courses such as univariate time series, multivariate time series, and panel data using RStudio

Customer Classification and Sector Mapping Study   Feb 2022 — Aug 2022
Junior Data Analyst   *IPB Univerisity and PT. Pegadaian*

- Developed customer classification model based on the probability of default using logistic regression
- Conducted sectoral mapping of non-pawned products for each regional office of PT. Pegadaian

WORK EXPERIENCE

Adjunct Lecturer   Feb 2025 — June 2025
Perbanas Institute   *Jakarta, ID*

- Teaching Machine Learning course for the Data Science Program in the Faculty of Information Technology
- Developing curriculum and practical lab sessions for undergraduate students

Assistant Lecturer   Feb 2021 — Dec 2024
IPB University   *Bogor, ID*

- Teaching courses including General Economics, Econometrics I, Econometrics II, Quantitative Methods, and Empirical Finance

SKILLS

- **Programming Languages**: R, Python, SQL, HTML/CSS, Markdown, Typst
- **Statistical Software**: EViews, Stata, SPSS, RStudio, Jupyter Notebook
- **Data Visualization & Publishing**: Tableau, Looker, Quarto

EDUCATION

IPB University   Bogor, ID
Bachelor of Economics (2020)
MSc in Statistics and Data Science (2024)

PUBLICATIONS

Metode Kuantitatif dengan RStudio   2024
Book   *IPB Press*

Aplikasi Model Ekonometrika dengan RStudio   2024
Book   *IPB Press*

Regional Tourism Development in Nusa Tenggara Barat: Maximizing Local Economic Development   2022
EcceS: Economics Social and Development Studies 9 (2), 107-127

Classification Modeling with RNN-based, Random Forest, and XGBoost for Imbalanced Data: A Case of Early Crash Detection in ASEAN-5 Stock Markets   2024
Scientific Journal of Informatics, 11(3), 569-582

HONORS & AWARDS

- **Jabar Future Leaders Scholarship** (Sep 2021)
- **Oral presentation** - 12th International Conference on Islamic Economics & Finance (Aug 2020)