

Deri Siswara

Curriculum Vitae

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EDUCATION

IPB University, Bogor, Indonesia
Bachelor of Economics, 2020

IPB University, Bogor, Indonesia
Master of Statistics and Data Science, 2024

TEACHING EXPERIENCES

A. Academic Teaching:

- 2025 - Now : **Perbanas Institute** (Lecturer): Machine Learning (Tools: *python*).
- 2020 - 2024 : **IPB University** (Assistant Lecturer): General Economics, Econometrics I, Econometrics II, Quantitative Method, and Empirical Finance (Tools: *R*, *STATA*, *EViews*, *SPSS*).

B. Training for Professionals:

- May 2025 : Instructor for "Introduction to RStudio" – Research Quality Improvement Workshop, organized by the Indonesian Economist Association and Jambi University.
- Februari 2025 : Instructor for "Outlier Analysis" – Developed the best formula for detecting outliers in daily bank report data, organized by Bank Indonesia.
- November 2024 : Instructor for “Descriptive Analysis and Index Calculation” – *The 2nd ASEAN Competition Business Perception Index*, organized by Indonesia Competition Commission (KPPU)
- September 2024 : Instructor for “Quarto Markdown in RStudio, OLS Regression, and Univariate Time Series Analysis” – *Econometrics and Quantitative Methods Training Series*, organized by QRLab, Department of Economics IPB University.
- June 2024 : Instructor for “Statistical Approach for Outlier Detection” – Developed the best formula for detecting outliers in monthly bank report data, organized by Bank Indonesia.
- March 2023 : Instructor for “Panel Data and Time Series Spillover Analysis” – *Spillover Training Series*, organized by QRLab, Department of Economics, IPB University.
- October 2022 : Instructor for “Econometric methods, including ARIMA, ARCH/GARCH, VAR, VECM, and panel data with R” – *In-House Training (IHT)*, organized by Bank Indonesia Institute (BINS).
- August 2022 : Instructor for “Forecasting Analysis.”- *Training for Employee for Palm Oil Production Forecasting Using Statistical Methods*, organized by PT Bumitama Gunajaya Agro.

- April 2021 : Instructor for “Basic R for Econometrics.”- *Online RStudio Training for Econometrics and Quantitative Management Methods* – organized by Department of Economics, Faculty of Economics and Management, IPB University, and the Indonesian Economics Graduates Association (ISEI).
- June 2020 : Assistant Instructor for “Econometrics Application with Eviews and STATA” - *Econometrics Online Courses*, organized by Department of Economics, Faculty of Economics and Management, IPB University.
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RESEARCH AND CONSULTANCY EXPERIENCES

- 2025 : Evaluation of the Performance of the Strategic Food Cluster (Championship Cluster). Organized by Bank Indonesia and ITAPS FEM IPB University. Developed a Microsoft VBA template for the evaluation process.
- 2024 : Junior Statistical Expert – Study of Government Rice Reserve Centers (CBP) Ministry of National Development Planning/Bappenas, Republic of Indonesia.
- 2024 : OMNI Dashboard, Telkom University. Developed a mental health dashboard using Quarto and RStudio.
- 2024 : Socio-Economic Impact Analysis of Subsidized Fuel Restrictions, PT Pertamina (Persero). Conducted an analysis focused on assessing the socio-economic impacts of subsidized fuel restrictions, including effects on poverty, unemployment, inflation, and economic growth.
- 2023 : Dynamic Food Price Analysis, Indonesia Competition Commission (KPPU). Analyzed the price transmission mechanism of 10 selected commodities by building models using the Nonlinear Autoregressive Distributed Lag (NARDL) model.
- 2022 : Customer Classification and Sector Mapping Study, 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. This analysis provided a foundation for policymaking.
- 2022 : Implementation of Smart City Standards in Indonesia based on SNI ISO 37122 during the COVID-19 Pandemic. APEC Project: SCSC 08 2020T. Conducted an analysis of smart city indices.
- 2022 : Analysis of Pension Fund Investment Portfolios and the Impact of Asymmetric Covid-19 on Risk Contagion & Volatility Spillover of Sectoral Stocks in Indonesia, Financial Services Authority – IPB Business School. Wrote the final research paper.
- 2021 : Warehouse Receipt System Analysis on Chili, Garlic, and Tobacco, the Commodity Futures Trading Regulatory Agency (BAPPEBTI), Ministry of Trade. Conducted a comprehensive analysis of the warehouse receipt system, evaluating operational efficiency and regulatory compliance.
- 2020 : Baseline Survey Youth Entrepreneurship and Employment Support Services Programme (Yess Programme), Ministry of Agriculture. Supervised focus group discussions (FGD), data cleansing, data visualization, and the finalization of the final report.

PUBLICATION

- 2024 : Pemodelan Klasifikasi dengan RNN-based, Random Forest, dan XGBoost untuk Data Tidak Seimbang: Kasus Deteksi Dini Tekanan di Pasar Modal ASEAN-5.
<https://repository.ipb.ac.id/handle/123456789/158240>
Code: <https://github.com/dekayzz/early-stock-crash-detection-rnns-tree>
- 2024 : 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
<https://journal.unnes.ac.id/journals/sji/article/view/4067>
- 2024 : Metode Kuantitatif dengan Rstudio.
<https://ipbpress.com/product/1520-metode-kuantitatif-dengan-rstudio>
- 2024 : Aplikasi Model Ekonometrika dengan RStudio Edisi Kedua/
<https://ipbpress.com/product/633-aplikasi-model-ekonometrika-dengan-rstudio-edisi-kedua>
- 2023 : Regional Tourism Development in Nusa Tenggara Barat: Maximizing Local Economic Development, Ecces: Economics Social and Development Studies 9 (2), 107-127
<https://journal.uin-alaudidin.ac.id/index.php/ecc/article/view/32194>
- 2021 : Aplikasi Model Ekonometrika dengan Rstudio: Model Time-Series, Panel, Spatial
<https://www.youtube.com/watch?v=eVufkjoS1JA>
- 2020 : Integrasi Pasar Saham Syariah Negara OKI dalam Krisis Pasar Saham Tiongkok dan Perang Dagang AS Tiongkok. <https://repository.ipb.ac.id/handle/123456789/105498>