

# 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

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## 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:

- 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, Tekom 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.
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## 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-alauddin.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>