



Norwegian University of
Science and Technology



PHD CANDIDATE

DINA TRI UTARI

Department of Mechanical and Industrial Engineering,
NTNU

COUNTRY OF ORIGIN



From the city of Special Region of Yogyakarta—historical loyalty to Indonesia, deep cultural roots, and unique system of governance led by the *Sultan*.

Also known as *Kota Pelajar* (City of Education); home to many top universities.





YOGYAKARTA

Educational Background

Norwegian University of Science and Technology 2025-present
PhD

RAMS/ Department of Mechanical and Industrial Engineering

Universitas Gadjah Mada 2014-2016
MSc

Mathematical Statistics/ Department of Mathematics

Universitas Jenderal Soedirman 2009-2013
BSc

Mathematical Statistics/ Department of Mathematics

Working Experience

Universitas Islam Indonesia | Department of Statistics
Full-time position as Lecturer (Assistant Professor)
2017-present



Academic Excellence and Social Contribution



Teaching → Developing knowledge



Research → Creating innovation



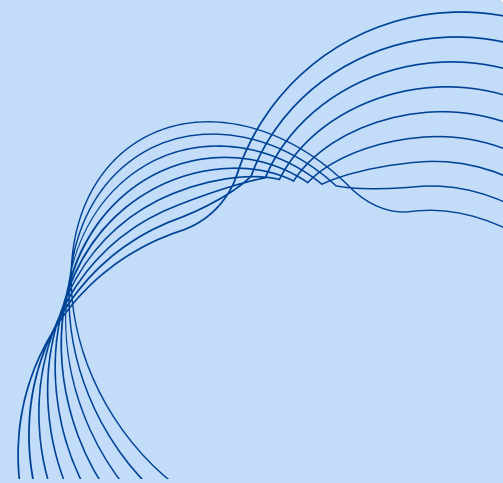
Community Service → Sharing impact



Academic and Professional Development

Technical Skills

Languages: R, Python, Tableau



RESEARCH & SCIENTIFIC CONTRIBUTIONS



- Total Publications: **40** research papers
- Scopus-Indexed Papers: **20**
- h-index (Scopus): **3**
- Research Fields: Artificial Intelligence, Machine Learning, Data Science, and Applied Statistics

THE MAIN PUBLICATIONS:

- Utari, D.T., Hendradewa, A.P., Bella, M.A. (2025). Optimized YOLO Approach for Drowsiness Detection in Automotive Safety: Parameter Tuning and Facial Expression Analysis.
- Maharani, S., Utari, D.T. (2024). Transfer Learning-Based Skin Tumor Identification Improvement.
- Utari, D.T., Yotenka, R., Ashim, P.F. (2024). Optimized Ensemble Learning Based on Genetic Algorithms and R-Shiny App for Early Detection of Preeclampsia.
- Salam, F.B., Utari, D.T. (2024). Schizophrenia Patient Classification with Long Short-Term Memory Analysis of Electroencephalography Signals.
- Ummah, F.R., Utari, D.T. (2022). Covid-19 and Tuberculosis Detection in X-Ray of Lung Images with Deep Convolutional Neural Network.

DOCTORAL RESEARCH

Enhancing Trustworthy AI Integration in Safety-Critical Systems

PhD Supervisor: Prof. Shen Yin

- Rapid adoption of **AI in safety-critical systems** (e.g., cyber-physical electricity system).
- **AI decisions** often lack transparency and accountability.
- Growing need for **trustworthy and explainable AI** that aligns with ethical and legal standards.
- This project addresses how to integrate **AI safely and responsibly** into real-world applications.

“Trustworthy AI is not only about accuracy — it’s about accountability, transparency, and reliability in systems that affect human lives.”



TERIMA KASIH

THANK YOU



Contacts

Email: dina.t.utari@ntnu.no

LinkedIn: <https://www.linkedin.com/in/dina-tri-utari-702478134/>

ORCID: <https://orcid.org/0009-0000-8489-8062>

Google Scholar: <https://scholar.google.com/citations?user=wuvNJcwAAAAJ&hl=en&oi=ao>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57203145918>