Nazura Wirayuda Tama

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Education

Universitas Brawijaya, Malang, Indonesia — 2021 - 2025
Bachelor of Science in Informatics Engineering — GPA: 3.46/4.0

Research Experience

Research Assistant - Faculty of Computer Science, Universitas Brawijaya — Jun 2023 - Aug 2025

- Developed deep learning models for character detection and extraction in Serat Napoleon Lontar manuscripts using YOLO architecture and GAN methodology to improve image quality
- Built end-to-end pipeline for fundus image segmentation and multi-class retinal disease classification utilizing U-Net and ResNet architectures
- Conducted research on retinal disease classification (DM, DM+CKD III, DM+CKD V) and develop IoT applications for retinal disease classification
- Secured RKI-21 PTNBH and DRPM research funding for computer vision and medical imaging projects

Researcher - Intelligent Systems Laboratory — Dec 2023 - Aug 2025

- Developed intelligent navigation assistance systems integrating computer vision and Large Language Models
- Classified AI-generated images using ensemble deep learning approach (ResNet, ConvNeXt, DINOv2) with enhanced feature extraction techniques

Teaching Experience

Teaching Assistant - Faculty of Computer Science, Universitas Brawijaya — Feb - Jun 2024

- Assisted 40 students in understanding machine learning fundamentals and practical implementation for Introduction to Machine Learning course
- Provided guidance during laboratory sessions and supported students with programming assignments

Service Experience

Coordinator	Election Supervisory Committee, BEM FILKOM	Sep - Dec 2023
Public Relations Officer	DISPLAY Student Press Institution	Feb - Dec 2023

Honors and Awards

2025	**Bronze Medal**, BirdCLEF+ 2025	Cornell Lab of Ornithology
2025	**Finalist**, Data Slayer 2.0	Telkom University Purwokerto
2024	**Finalist**, GEMASTIK XVII Data Mining	Ministry of Education, Culture, Research & Technology
2024	**Graduate**, Bangkit Academy ML Cohort	Average Score: 95.75/100

Publications

Leveraging Stacked Vessel Segment and Channels of Fundus Image for Eye Disease Detection Using Hybrid U-Net-Residual Convolutional. *Proceedings of SIET 2024.*

Professional Certifications

- Google IT Automation with Python Specialization — Google
- Google Data Analytics Specialization — Google
- Mathematics for Machine Learning and Data Science Specialization — DeepLearning.AI
- TensorFlow Developer Specialization — DeepLearning.AI
- Natural Language Processing Specialization — DeepLearning.AI
- Machine Learning Specialization — DeepLearning.AI & Stanford University

Technical Skills

Programming Languages	Python, C++, Java, SQL, Bash, TeX
Specializations	Computer Vision, Natural Language Processing, Data Science
ML/AI Frameworks	PyTorch, TensorFlow, Keras, Scikit-Learn, Hugging Face, LangChain
Tools & Technologies	Google Cloud Platform, Git, Linux, Power BI, Microsoft Office Suite, Figma