





# 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) with potential IoT applications
- 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

|                                 |  |                |
|---------------------------------|--|----------------|
| <b>Coordinator</b>              | Election Supervisory Committee, BEM FILKOM | Sep - Dec 2023 |
| <b>Public Relations Officer</b> | DISPLAY Student Press Institution          | Feb - Dec 2023 |

## Honors and Awards

|      |   |   |
|------|---|---|
| 2025 | <b>Bronze Medal</b> , BirdCLEF+ 2025        | Cornell Lab of Ornithology                            |
| 2025 | <b>Finalist</b> , Data Slayer 2.0           | Telkom University Purwokerto                          |
| 2024 | <b>Finalist</b> , GEMASTIK XVII Data Mining | Ministry of Education, Culture, Research & Technology |
| 2024 | <b>Graduate</b> , 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                                |
| • TensorFlow Developer Specialization             | DeepLearning.AI                       |
| • Natural Language Processing Specialization      | DeepLearning.AI                       |
| • Machine Learning Specialization                 | DeepLearning.AI & Stanford University |

## Technical Skills

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