Nazura Wirayuda Tama

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SUMMARY

An Informatics Engineering graduate from the University of Brawijaya specializing in Machine Learning, with a focus on Computer Vision and proficiency in Natural Language Processing. Brings over two years of hands-on experience in designing, building, and refining robust ML models. Driven to leverage a foundation in programming, data analysis, and deep learning architectures to develop innovative AI solutions. Eager to apply expertise in a challenging role focused on building impactful intelligent systems.

EXPERIENCE

FILKOM UB - Research Assistant   Jun 2023 - Agu 2025

– Designed and developed computer vision models based on deep learning YOLO DETR for detection and extraction of characters in ancient manuscripts Serat Napoleon Lontar

– Built pipeline for ocular fundus image segmentation and multi-class retinal disease classification using U-Net ResNet architecture

– Conducting research on retinal diseases including DM Only, DM + CKD III, & DM + CKD V classified using machine learning, with plans for IoT model application

– Secured RKI-21 PTNBH and DRPM research funding from Brawijaya University for computer vision and medical image analysis research

Intelligent Systems Laboratory - Researcher Member   Dec 2023 - Aug 2025

– Conducting research on intelligent navigation assistance systems using computer vision models and Large Language Models

– Classifying AI images using deep learning with methods to enrich feature extraction in images, then classified using a combination of ResNet, ConvNeXt, and DINOv2 as classifiers

Bangkit Academy - Machine Learning Cohort   Feb 2024 - Jul 2024

– Graduated from Bangkit Academy with an average score of 95.75

– Developed mobile application for plant disease identification with pipeline acquisition, transformation, EDA imaging, and TensorFlow classification model training

FILKOM UB - Teaching for Introduction to Machine Learning   Feb 2024 - Jun 2024

– Assisted 40 students in understanding basic machine learning concepts and practical implementation in the Introduction to Machine Learning course

– Provided guidance and support during laboratory sessions and helped students troubleshoot programming assignments

BEM FILKOM - Coordinator of Election Supervisory Committee   Sep 2023 - Des 2023

– Led the supervision of general elections at the faculty level of Brawijaya University with organizational and management responsibilities, overseeing multiple polling stations and volunteer teams

– Coordinated election oversight activities and ensured compliance with electoral procedures and regulations while managing administrative documentation and reporting processes

DISPLAY Student Press Institution - Public Relations   Feb 2023 - Des 2023

– Active member of the journalism community contributing to student media and communication activities through regular article writing and campus event coverage

– Participated in content creation, news reporting, and editorial activities in university

EDUCATION

2021 - 2025	Bachelor's Degree at **Universitas Brawijaya**	(GPA: 3.46/4.0)
2019 - 2021	**SMA Negeri 1 Tuban**	
2018 - 2019	**SMA Negeri 1 Tambakboyo**	
2015 - 2018	**SMP Negeri 6 Tuban**	

ACHIEVEMENTS

Bronze Medal BirdCLEF+ 2025   **Cornell University Lab of Ornithology**

Achieved bronze medal in species identification competition from audio, focused on birds, amphibians, mammals, and insects from the Middle Magdalena Valley of Colombia using deep learning techniques

Finalist GEMASTIK 2024   **Ministry of Education, Culture, Research & Technology**

One of 20 finalist teams competing in the Data Mining competition at GEMASTIK 2024, producing technical reports in the elimination round and creating machine learning models in the final round

Finalist Data Slayer 2.0   **Telkom University Purwokerto**

Finalist in Data Slayer 2.0 competition developing machine learning model for Human Fall Detection Classification for Safety Insight using YOLOv11 deep learning architecture

CERTIFICATIONS

– Google IT Automation with Python Specialization	Google
– Google Data Analytics Specialization	Google
– Mathematics for Machine Learning and Data Science Specialization	DeepLearning.AI
– DeepLearning.AI TensorFlow Developer Specialization	DeepLearning.AI
– TensorFlow: Data and Deployment Specialization	DeepLearning.AI
– TensorFlow: Advanced Techniques Specialization	DeepLearning.AI
– Natural Language Processing Specialization	DeepLearning.AI
– Machine Learning Specialization	DeepLearning.AI & Stanford University

PUBLICATIONS

SIET 2024 - Accepted Paper   **Sustainable Information Engineering and Technology**

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

SKILLS

Programming Languages	Python, C++, Java, SQL, Bash
Machine Learning & AI	PyTorch, TensorFlow, LangChain, Keras, Scikit-Learn, Hugging Face, Computer Vision, Natural Language Processing, Time Series Forecasting
Data & Analytics	Data Cleaning, Statistical Analysis, Data Visualization
Tools & Technologies	GCP, Git, Linux, Figma, Microsoft Office
Soft Skills	Problem Solving, Critical Thinking, Project Management, Time Management, Team Works, Adaptability, Consistency, Leadership, Communication Skills
Interests	Artificial Intelligence, Scientific Writing, Touring, Agriculture, Literature