

# Nazura Wirayuda Tama

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## SUMMARY

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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

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### **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

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

## ACHIEVEMENTS

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<b>Bronze Medal BirdCLEF+ 2025</b>	<b>Cornell University Lab of Ornithology</b>
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	
<b>Finalist GEMASTIK 2024</b>	<b>Ministry of Education, Culture, Research &amp; Technology</b>
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	
<b>Finalist Data Slayer 2.0</b>	<b>Telkom University Purwokerto</b>
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

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– 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

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<b>SIET 2024 - Accepted Paper</b>	<b>Sustainable Information Engineering and Technology</b>
Leveraging Stacked Vessel Segment and Channels of Fundus Image for Eye Disease Detection Using Hybrid U-Net-Residual Convolutional. <i>Proceedings of SIET 2024</i> .	

## SKILLS

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Programming Languages	Python, C++, Java, SQL
Machine Learning & AI	PyTorch, TensorFlow, 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	Project Management, Time Management, Team Works, Adaptability, Consistency, Leadership
Interests	Artificial Intelligence, Scientific Writing, Touring, Agriculture, Literature