

RAHMA NUR AZIZAH



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SUMMARY

Hello! I'm Rahma Nur Azizah, an Informatics student at Universitas Teknologi Yogyakarta with a focus on Intelligent Systems, particularly Computer Vision and Deep Learning. Experienced as a teaching/practicum assistant and project-based freelancer, with hands-on skills in Python, machine learning, data processing, and workflow automation using n8n. Combines strong analytical thinking with creative problem-solving to build impactful AI-based solutions.

EXPERIENCE

Asisten Lecturer - Universitas Teknologi Yogyakarta **Sep 2025 - Jan 2025**

- Coordinated with the lecturer to prepare and deliver lab materials based on the semester curriculum.
- Guided students in implementing image processing algorithms (e.g., Convolution, Thresholding, Edge Detection) using Python (OpenCV).
- Evaluated and graded weekly lab assignments and final projects.

Internship Software Engineer - DINAS KOMUNIKASI DAN INFORMATIKA (DISKOMINFO) DIY **Aug 2025 - Oct 2025**

- Developed complex backend workflows using n8n and Supabase to manage real-time data and API integrations.
- Integrated Generative AI (ChatGPT/Gemini) into the system to enhance natural language processing and user response accuracy.

Asisten Lecturer - Universitas Teknologi Yogyakarta **Feb 2025 - Jul 2025**

- Provide and explain lecture materials in accordance with applicable courses and Semester Learning Plans and evaluate the results of student work and assignments.
- Assisted students in understanding fundamental machine learning concepts, including supervised and unsupervised learning, and the implementation of algorithms such as K-NN, Naive Bayes, and Decision Tree.
- Actively participated in class discussions and online forums, serving as a liaison between lecturer and students.

EDUCATION

University Of Technology Yogyakarta **Sep 2022 - Present**

University of Technology Yogyakarta, GPA: 3.74/4.00

- Relevant Courses: Data Science, Big Data, MachineLearning, Artificial Neural Network, Digital Image Processing.
- Currently working on the Informatics Capstone Project titled 'Handwriting Recognition for Sundanese Script using Convolutional Neural Network'

SMA Negeri 1 Sumber - Kab. Cirebon **Jul 2018 - May 2021**

Majoring in science

- Journalism and Photography Club Member
- Yearbook Committee & SMAN1S Edu Fair – Publication, Design, and Documentation (PDD) Division
- Environmental Ambassador 2018

HONOR & AWARDS

Sinta 4 Journal Article Publication **Dec 2025**

- Research Title: [Implementasi Convolutional Neural Network Untuk Pengenalan Tulisan Tangan Akasara Sunda Ngalangéna](#).
- Publish in Indonesian Journal: TIN: Terapan Informatika Nusantara.

ORGANIZATIONAL & VOLUNTEER EXPERIENCE

First Secretary	Oct 2024 - Sep 2025
Informatics Student Association (HIMATIKA)	
<ul style="list-style-type: none">Managed organizational archives, including official documents, letters, and activity records, to ensure structured and accessible documentation.Maintained and updated the inventory database, recording organizational assets and tracking their usage for efficient resource management.Created and maintained a member database, organizing active member data to support internal coordination and event planning.	

Second Secretary	Oct 2023 - Sep 2024
Informatics Student Association (HIMATIKA)	
<ul style="list-style-type: none">Assisted in managing incoming and outgoing correspondence, ensuring documentation is well-organized and accessible.Supported the preparation and maintenance of lecture schedules to enhance time management for members.	

PROJECTS

Implementation of an n8n Automation Workflow as the Backend for an Interactive	Aug 2025 - Oct 2025
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Nutrition OPD Chatbot Application

Developed an n8n-based automation backend for an interactive Nutrition OPD chatbot application.

- Built and configured n8n workflows for chatbot logic and automated responses.
- Integrated APIs, database operations, and Generative AI (ChatGPT/Gemini) for real-time, intelligent interactions.
- Connected the backend with a web-based UI using HTML and CSS.
- Conducted self-testing on the application and documented the results in Excel to evaluate functionality and improve system performance.

Handwriting Recognition for Sundanese Script using Convolutional Neural	Mar 2025 - Oct 2025
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Network

Developed a CNN model for handwritten Sundanese script recognition

- Collected and labeled a custom dataset of handwritten Sundanese characters.
- Applied image preprocessing techniques to enhance model performance.
- Achieved 99.54% accuracy on the test dataset, demonstrating the model's high reliability in recognizing handwritten Sundanese characters.

Fuzzy-Based Anxiety Level Assessment System for New Migrant Students	May 2025 - Jun 2025
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Developed a fuzzy logic system using the Tsukamoto method to assess anxiety levels in new migrant students

- Developed an interactive web interface using Streamlit for input, result visualization, and database logging.
- Aimed to assist early mental health screening in university settings.

Handwriting Recognition of 2024 Presidential Election Results	Des 2024 - Jan 2025
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Developed a system to extract and recognize handwritten data from scanned election result forms published by the Indonesian government

- Multi-Algorithm Comparison across 5 different machine learning models.
- Real-time Processing with efficient batch processing for large datasets.
- 3 Feature Extraction Methods implemented and compared.
- 95%+ Accuracy achieved using HOG features with SVM classifier.

ADDITIONAL INFORMATION

- Tools:** Python, n8n, Tensorflow, PyTorch, Scikit-learn, OpenCV, Power BI Tools, Streamlit, Tkinter.
- Languages:** Indonesia, English
- Hard Skills:** Machine Learning, Deep Learning, Computer Vision, Data Analysis, Data Processing & Visualization, Data Engineering, Statistics.
- Soft Skills:** Problem Solving, Analytical Thinking, Teamwork, Communication, Leadership, Agile & Adaptive.