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 lecturematerials 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)
- 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)
- 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**
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.

Handwriting Recognition for Sundanese Script using Convolutional Neural   **Mar 2025 - Oct 2025**
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**
Depeloved 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**
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 BITools, Streamlit, Tkinter.
- **Languages:** Indonesia, English
- **Hard Skills:** Machine Learning, Deep Learning, ComputerVision, Data Analysis, Data Processing & Visualization, Data Engineering, Statistics.
- **Soft Skills:** Problem Solving, Analytical Thinking, Teamwork, Communication, Leadership, Agile & Adaptive.