ARTIKA NETHANIA JOANA .B SOMPIE

Computer Science Undergradute, Specializing in AI

(+62)878-8288-8147 | ikaaneth@gmail.com | LinkedIn | GitHub | Portofolio

Tangerang, Banten

SUMMARY

Computer Science student at BINUS University, specializing in Artificial Intelligence. Experienced in developing machine learning, NLP, and computer vision models, and integrating them into full-stack web applications — with a proven ability to take projects from research and experimentation to functional, deployable solutions. Passionate about leveraging AI to solve meaningful problems and continuously expanding technical depth through hands-on experience.

EDUCATION

Bachelor of Computer Science **Sept 2024 - Present**

School of Computer Science (Specializing in Artificial Intelligence), BINUS University

- Relevant coursework: Machine Learning, Deep Learning Natural Language Processing, Computer Vision, Speech Recognition, Software Engineering, Web Programming, Human-Computer Interaction.
- Experienced in completing academic projects, presentations, and discussions conducted in English.

PROJECT EXPERIENCE

Face Recognition Attendance System | Computer Vision **Feb 2026 - June 2026**

- **Tech Stack:** Python, OpenCV, XGBoost, FastAPI, React
- **Key Features**: Built an automated attendance system using Haar Cascade for face detection, CLAHE for image enhancement, and HOG + LBPH feature extraction with XGBoost classification, achieving 98% confidence score; served via FastAPI with a real-time React frontend

EUR/USD Close Price Prediction | Machine Learning **Feb 2026 - June 2026**

- **Tech Stack:** Python, NumPy, Pandas, Streamlit, Hugging Face Spaces
- **Key Features:** Implemented Multiple Linear Regression from scratch with Gradient Descent (no sklearn) to predict the next 15-minute EUR/USD close from ~100K rows of OHLC data, reaching R^2 0.9998 and MAPE 0.037%; deployed as a Streamlit app on Hugging Face Spaces as a team of 5 (user testing score: 4.67/5)

HopeLink — Volunteer Matching Platform | Software Engineering **Feb 2026 - June 2026**

- **Tech Stack:** JavaScript, Node.js, Express, MySQL, Figma
- **Key Features:** Web platform connecting donors and volunteers with orphanages, shelters, and elderly care homes, supporting three user roles (donor, organization, admin); served as Frontend Developer and GitHub repository owner in a team of 5, building volunteer registration, activity management, and admin dashboard pages

Fake Review Detection System | Natural Language Processing **Mar 2026 - June 2026**

- **Tech Stack:** Python, Scikit-learn, RoBERTa, Streamlit
- **Key Features:** Compared 4 NLP models on 1,600 hotel reviews (Deceptive Opinion Spam Corpus) with cross-domain evaluation on 2,483 Yelp reviews; best in-domain accuracy 89.69% (Logistic Regression), best cross-domain generalization RoBERTa (F1: 0.60); deployed as a real-time web app via Streamlit

Explainability Analysis of ML Models | Research Methodology Paper **Feb 2026 - June 2026**

- **Tech Stack:** Python, Scikit-learn, SHAP, LIME
- **Key Features:** Compared SHAP and LIME explainability methods on Logistic Regression and Random Forest models using the Vertebral Column dataset, analyzing consistency, computational efficiency, and interpretability across both techniques

ORGANIZATIONAL AND VOLUNTEER EXPERIENCE

Bina Nusantara Computer Club (BNCC)

External Event Organizer Staff Nov 2025 - Present

- Coordinated Publication & Registration for TechDive 2025 (4 regions, 1,000+ participants), growing from sole coordinator to leading 3 regional coordinators and a 12-person team, and for TechUp 2026 (team of 5), handling registration and event promotion.
- Regional Coordinator of Event & Equipment for Technoscape 2026 (seminar, workshops, 10+ team hackathon), collaborating with 3 other regions, leading 7 members, and reaching out to trainers for a Cybersecurity in Fintech workshop (30+ participants).
- Mentored 7 activists in the Leadership Development Program 2026 from program proposal to on-site presentation, and hosted its negotiation and problem-solving sessions as MC (100+ participants).

Public Relations Activist Nov 2024 – Nov 2025

- Produced social media content (reels, posters, “Fun Fact Tech” series) and supported sponsorship and media partnership outreach.
- Coordinated a 3–5 person Publication & Registration team and hosted Slice of Life 2025 as MC (500+ participants).

Ruang Les 2026 | Teach for Indonesia Student Community (TFISC)
English Tutoring Volunteer Sep 2026 - Oct 2026

- Taught practical everyday English to orphanage children from kindergarten to high school over a 5-day program, adapting materials and delivery to different ages and skill levels through interactive activities.

SKILLS

- **Programming Languages:** Python, JavaScript, PHP, Java, C, SQL
- **AI / ML:** Scikit-learn, XGBoost, RoBERTa, OpenCV, TensorFlow.js, Pandas, NumPy
- **Web Development:** HTML/CSS, React, Laravel, Node.js, FastAPI, REST API, MySQL
- **Tools:** Git, Streamlit, Figma
- **Soft Skills:** Problem Solving, Critical Thinking, Leadership, Teamwork, Project Coordination, Public Communication
- **Languages:** Indonesian (Native), English (Professional Working Proficiency)